

# THOMSON CONSUMER ELECTRONICS

Service

NOR	DN	ΙĒΝ	DE
THOMSO	NI TE	CHNC	JI OGY

SABA

TELEFUNKEN

A TROMSON

**FERNSEHEN TELEVISION** TÉLÉVISION

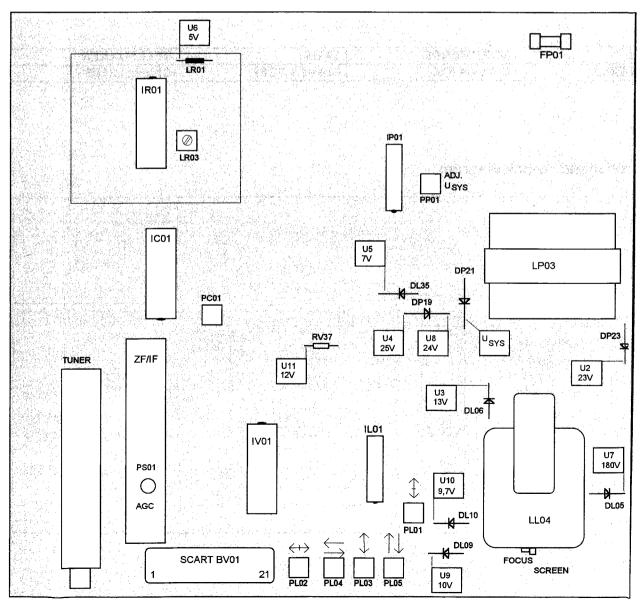
Bestell-Nr. 102.508.30

**Chassis TX 90** 

ACHTUNG! Ersatzteilbestellungen sind schneller und kostengünstiger über Fax 05 11 / 4 18-12 60

10" / 14" / 15" / 16" / 20"

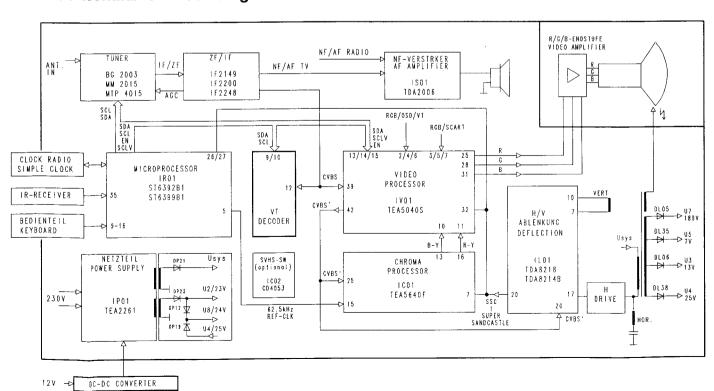
Service-Lageplan · Layout diagram · Disposition des régleurs Posizione regulatori di servizio · Situation de los ajustes



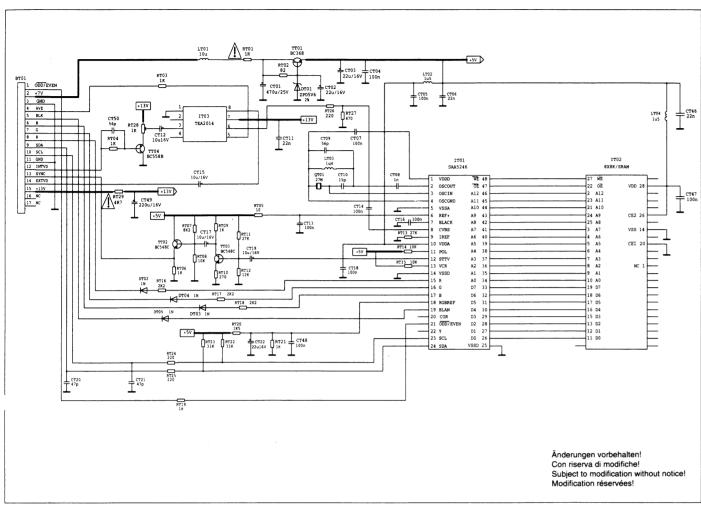
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Referenz	NORDMENDE	SABA	TELEFUNKEN
Chassis TX90	Chassis F26	Chassis SC09	Chassis 318B

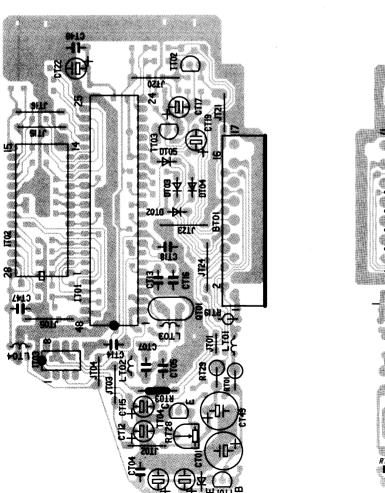
#### Blockschaltbild · Block diagram

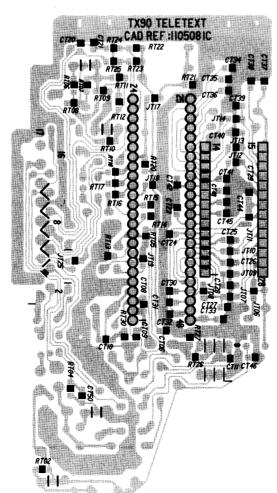


#### Videotext-Decoder · Teletext decoder · Décodeur Vidéotexte · Decoder Televideo Descodificador Teletexto – TX 90



Lötseite  $\cdot$  solder side  $\cdot$  côté soudure  $\cdot$  lato saldature  $\cdot$  lado soldaduras





### Service Einstellungen · Adjustments · Réglages · Regolazioni · Ajustes de servicio

U system	PP01			V + - CP22	10": 101V (103V - 10" PRO) 14": 104V 15": 106V 16" / 20": 108V
HPos.	PL04	r			$\leftarrow$
HFrequ.	PL02		MT01⇔MT02	4	$\longleftrightarrow$
VPos.	PL05	P		4	$\bigcap$
VAmpl.	PL03				
VFrequ.	PL01				$\bigcirc$
U G2	G2 screen		- = min.		dunkel ⇔ gerade sichtbar dark ⇔ just visible
Schärfe Focus	Focus	*	$\Rightarrow$ $\forall$		optimale Auflösung optimal resolution
AGC	PS01 /	*	3mV W Ch 9 BG	Pin 3 Tuner HF	1. max. 2. max 8dB
PAL Chroma Delay	PC01		r⇒ ¥	CRT-Board	line 1 + line 2
Weißabgleich white alignment (CRT-Board)	PT50 PT70	r	⇒ ¥ ⇒ = standard • = min.		Weiß, white

#### Wertetabellen · Tables of values

Tabelle / Table 1 #

#			RS05			RS06			,,,,		
	10"	14"	15"	16"	20"	10"	14"	15"	16"	20"	
PAL/SECAM 2108TX	82K	91K	91K	91K	91K	15K	15K	11K	11K	13K	
PAL/SECAM 2149	100K	68K	68K	68K	75K	24K	13K	11K	11K	15K	
PAL/SECAM 2248	62K	68K	68K	68K	68K	13K	12K	10K	10K	12K	
PAL 2200	91K	68K	100K	100K	82K	15K	10K	10K	10K	10K	
PAL 2200	91K	68K	100K	100K	82K	15K	10K	10K	10K	10K	
PAL 2205	82K	91K	100K	100K	91K	13K	12K	10K	10K	11K	
SECAM 2130	-	-	-	-	-	-	-	-	-	-	

abelle /	Table 2 *	
	SMPS	
ITEM	176-264VAC	90-26
2010	071//511/	

ITEM	176-264VAC	90-264VAC
RP10	27K/5W	10K/5W
RP04	47/1W	27/1W
TP01	BUT12A	BUH314TH
LP03	SMV42-20	SMV42-18
LP01	ELF-18DG652N	ELF-18DG651N
FP01	T1.6A	T2.5A

#### Tabelle / Table 5@@

ITEM	DESCRIPTIONS
BV04	WAFER 17-WAYS
CL35	CC 330p/50V
CL36	CE 470u/16V
CL37	CPM 10n/63V
DL35	DIODE BA157
RL18 10"	•
14"	RCF 6K8/0.25W
15"	RCF 5K6/0.25W
16"	RCF 5K6/0.25W
20"	RCF 5K6/0.25W
RL40	RCFF R22/0.3W
RR14	RCFCC 10K/0.1W
RR15	RCFCC 5K6/0.1W
RR17	RCFCC 22K/0.1W
RR25	RCFCC 56K/0.1W
TR15	TR. BC548B
TR16	TR. BC548B
FOR FAST-TEXT IC SOCKET IS ADDED TO IR01 MICRO-P IC	IC SOCKET 42-P SHRINKED DIP

Tabelle / Table

ITEM DESCRI

CL22 HORI. R

CAPA RL27 HEATER I
RL28 \*13VFI
RESI
RV17 CATHODE
RESI
RV23 AVERAG
RV35 AVE
RV60 ABL D
RC60
RV60 AWITERC60
RV60 WHITERC750
RV60 WHITERC750 WHITE-

Tabelle / Tab

TUNER IF-MODULE LV01 QV01 QV02

RV32

RR20 RS05 RS06 RR94 RR95 CV40 CV41 CV47 DV40 LV02 RC18

RC20 RV40 RV41 RV43 RV44 RV45 RV46 TC02 TV05 TV06 RV29 RV47 JV39 RC14

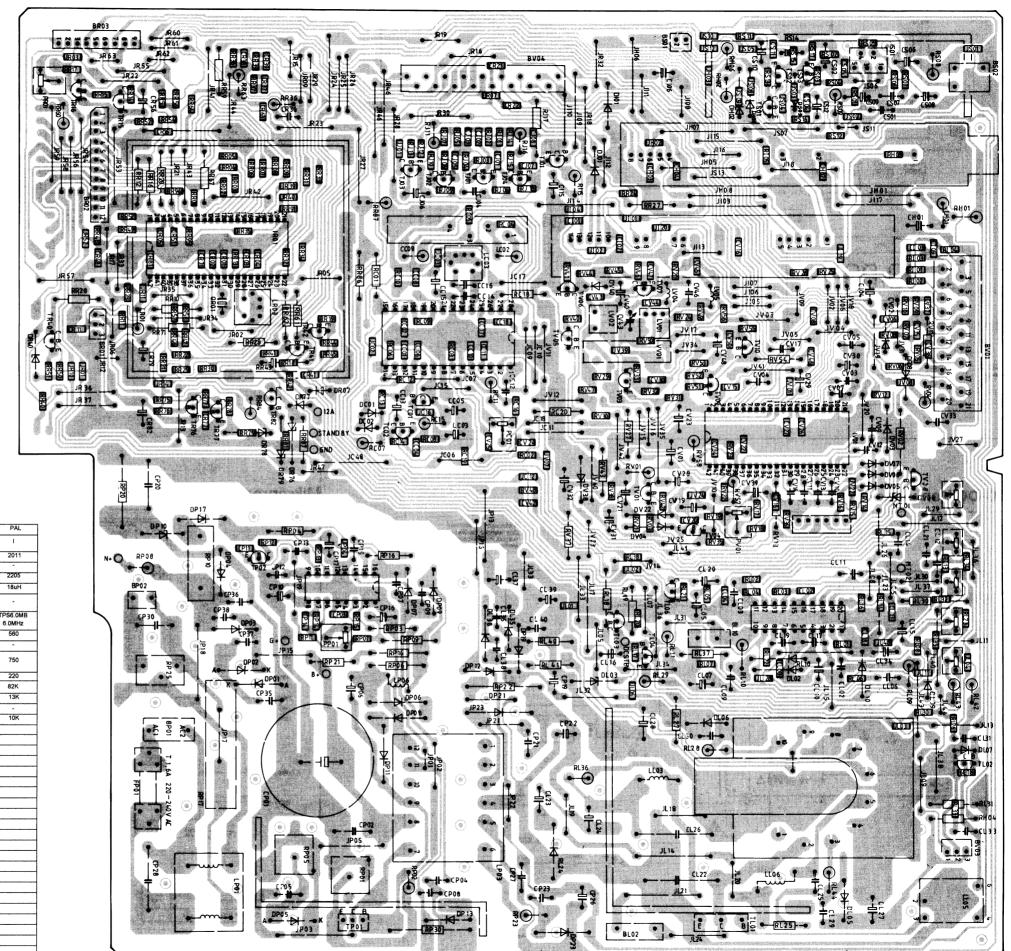
#### le servicio

ER 17-WAYS 330p/50V

5K6/0.25W 5K6/0.25W 5KB/0 25W FF R22/0.3W CC 56K/0.1W

# Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 1)

Lötseite  $\cdot$  solder side  $\cdot$  côté soudure  $\cdot$  lato saldature  $\cdot$  lado soldaduras



ZPD5V6

Tabelle / Table 3 \*\*

ITEM DESCRIPTIONS

DV24 VIDEO REF ZENER

CL22 HORI. RETRACE 7n/1K6V (T) CAPACITOR 6n8/1K6V (S) HORI LINEARITY

DEGAUSSING COIL DC-9010-16 DC-931 +-1% 13K/0.1W DC BIAS OF VERT O/P RES. 13K/0.1W VERTICAL DAMPER RESISTO 390/0.7W 680/0.7W 390/0.7W 390/0.7W 390/0.7W DC BIAS OF VERT OUTPUT RESISTOR 2M2 2M2 2M2 SMPS I SENSING RESISTOR R27/3W R27/3W R27/3W SMPS IC 1R/0.5W 0.56/0.5W 0 56/0 5W 0.22/0.5W 0.22/0.3W 0.22/0.3W 0.22/0.3W 0.22/0.3W RV17 CATHODE CURREN RESISTOR 820 820 750 620 390

47K

33K

ZPD6V2

ZPD6V2

8/4W

33K

AV BEAM RESISTOR ABL DIVIDER RESISTOR

WHITE-BALANCE RESISTOR

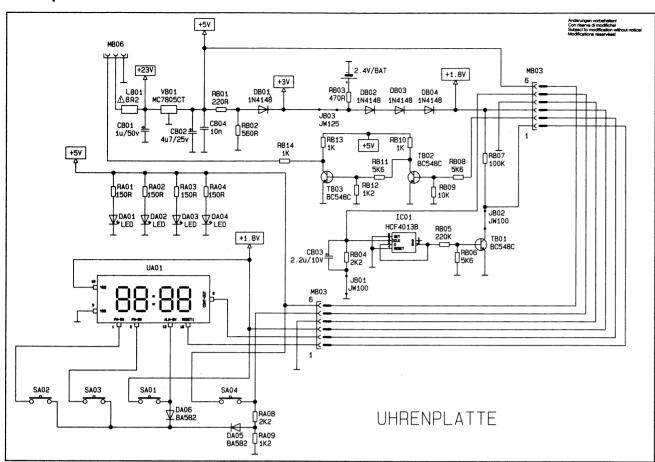
WHITE-BALANCE RESISTOR

3K0

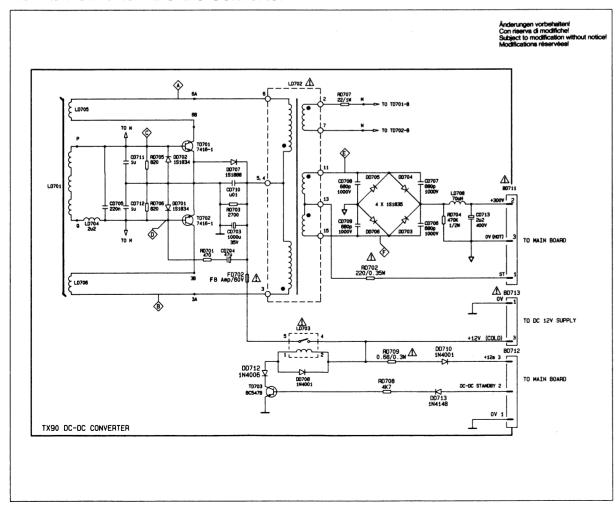
47K

COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	SECAM	PAL	PAL	PAL
TV	BGHILL'	BGLDKK'	BGDKK'	IT.	BG	BG	1
TUNER	2015	2015	2015	2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	-	HYPERBAND	-	<del>                                     </del>
IF-MODULE	2108TX	2149	2248	2130TX	2200	2200	2205
LV01	8.2uH	8.2uH	8.2uH	10uH	10uH	10uH	18uH
QV01	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPS6.5MB 6.5MHz	TPW04B 5.5/5.7MHz	TPW04B 5.5/5.74MHz	-
QV02	TPS6.0MB 6.0MHz	TPS6.5MB 6.5MHz	TPS6.5MB 6.5MHz	-	-	-	TPS6.0MB 6.0MHz
RV20	220	220	220	560	270	180	560
RV24	1K5	1K2	1K8	2K2	1K5	1K5	-
RV32	1K	1K	1K	1K	750	750	750
RR20	56	56	56		220	220	220
RS05	82K	100K	62K	-	91K	91K	82K
RS06	15K	24K	13K		15K	15K	13K
RR94	-	-	-	10K	<del></del>	-	<del> </del>
RR95	10K	10K	10K	-	10K	10K	10K
CV40	CE	10u/16V +50 -20%	5			L	
CV41	CC	CC 56p J 50V SL			1	-	
CV47	CC	CC 10n M 16V Y5	S			-	
DV40		DIODE 1N4148				-	
LV02	ı	A 7X7 4ME43Hz		-			
RC18		RCF 10K 0.25W		-			
RC19	F	RCFCC 7K5 0.1W				-	
RC20	F	RCF 100K 0.25W				-	
RV40	F	RCFCC 10K 0.1W				-	
RV41	F	RCFCC 1K8 0.1W					
RV43		RCF 4K7 0.25W				-	
RV44		RCF 4K7 0.25W				-	
RV45	F	RDFCC 47K 0.1W				-	
RV46	F	RCFCC 10K 0.1W				•	
TC02		TR BC5508					
TV05		TR BC558C		•			
TV06		TR BC548C		-			
TV07		TR BC548C				-	
RV29	F	RCFCC 1K3 0.1W			T	RCFCC 1K6 0.1V	N
RV47	F	RCFCC 220 0.1W				RCFCC OR % 0.1	W
JV39		-				JUMPER 10m	m
RC14	F	RCFCC 82R 0.1W		RCFCC 0R 0.1W			IW

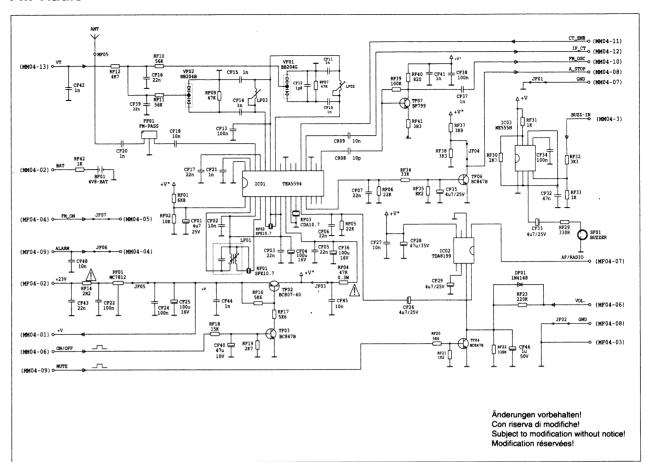
### **Uhrenplatte · Clock board**



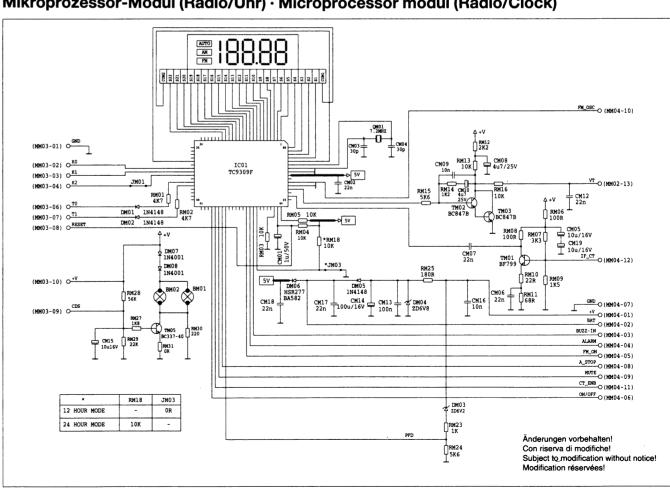
#### **DC-DC Konverter · DC-DC Converter**



#### FM-Radio

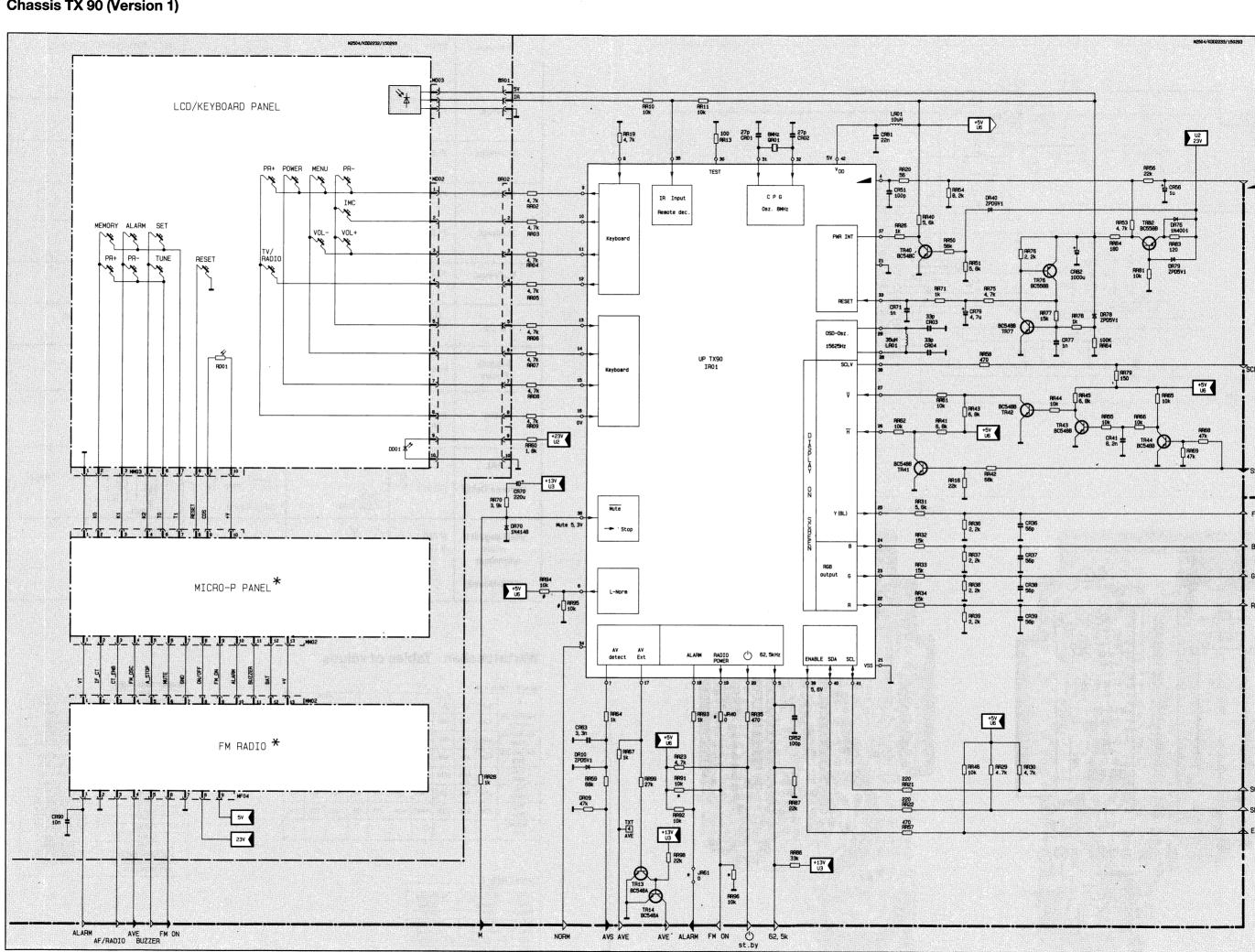


# Mikroprozessor-Modul (Radio/Uhr) · Microprocessor modul (Radio/Clock)



Chassis T

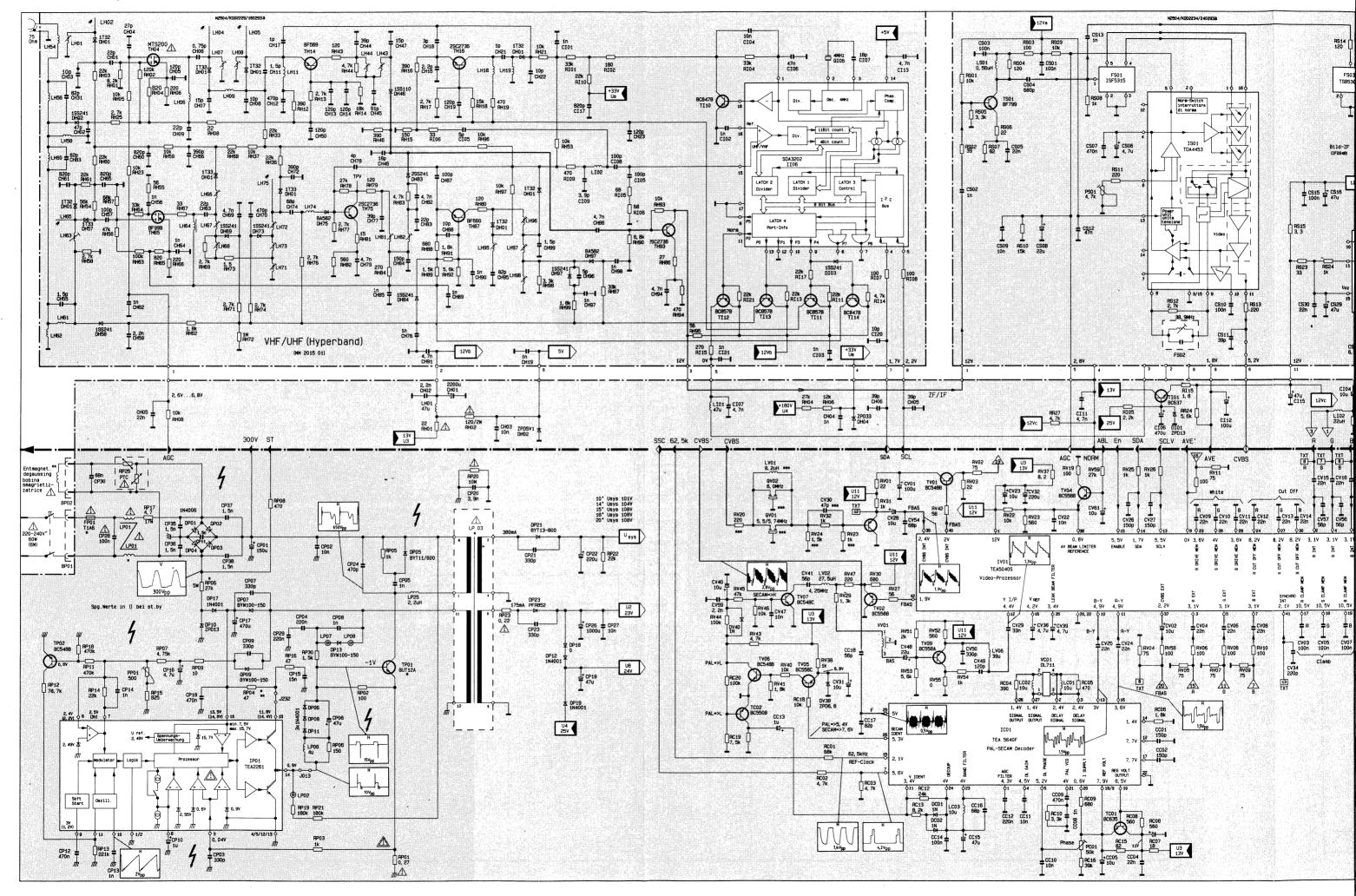
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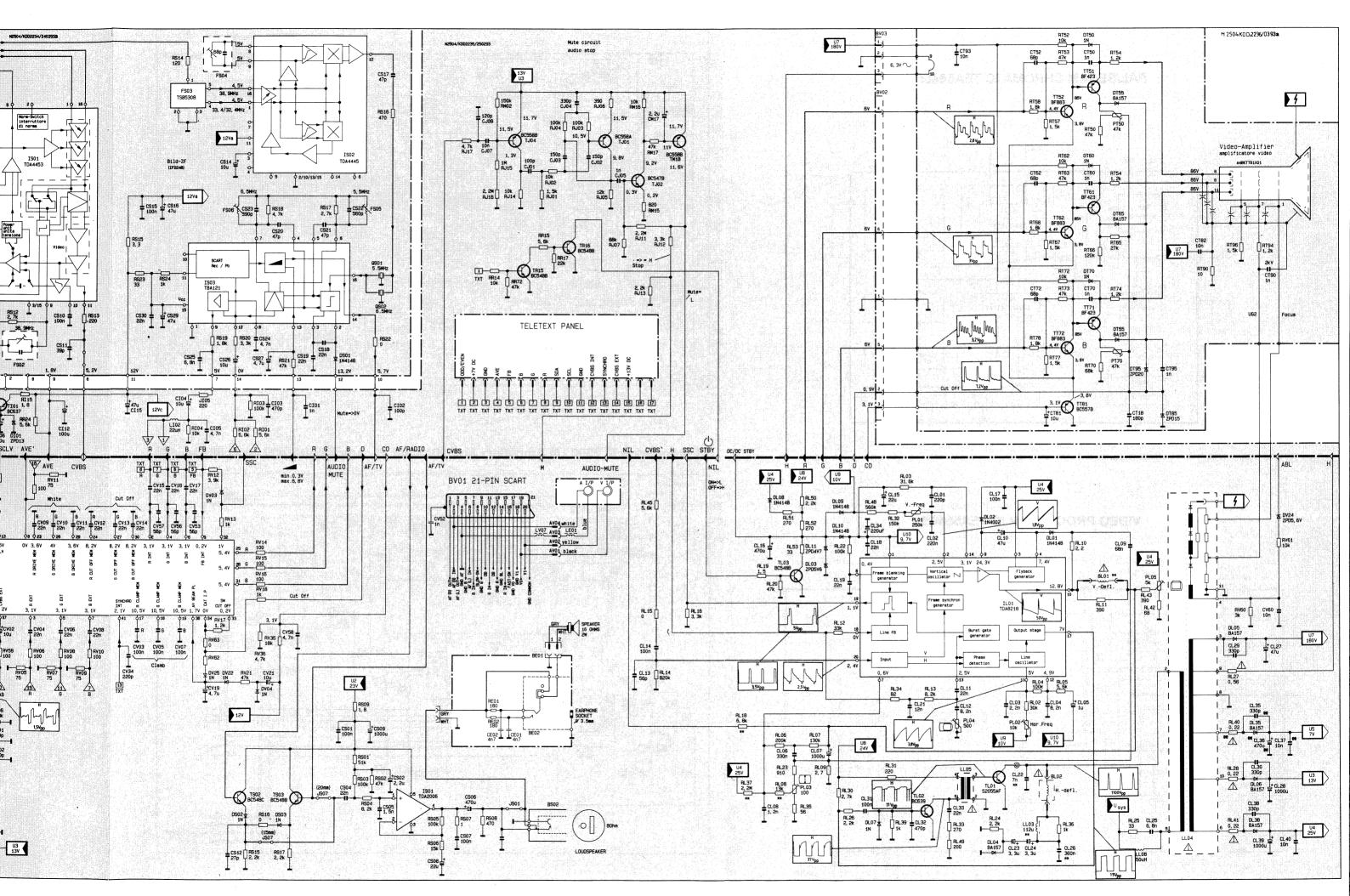


\* not used in all models

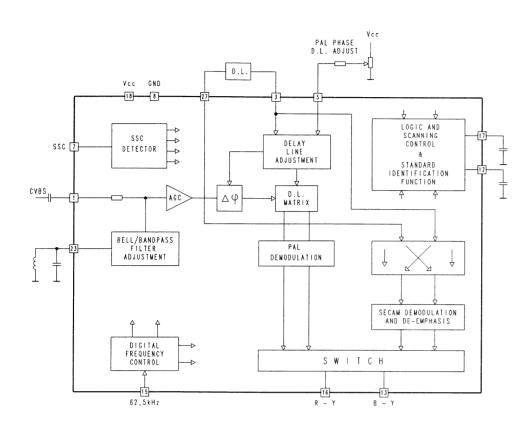
out notice!

### Chassis TX 90 (Version 1)

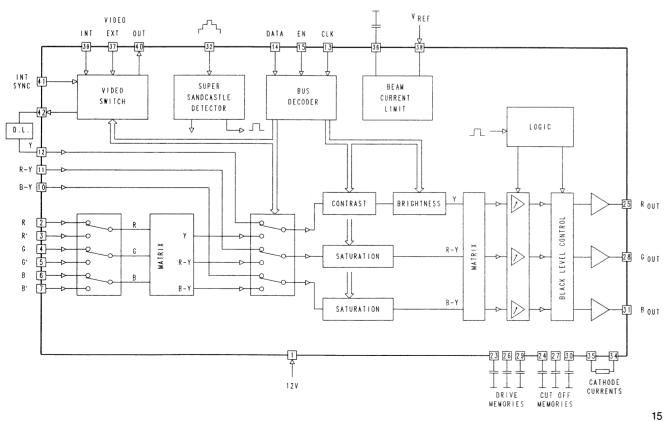




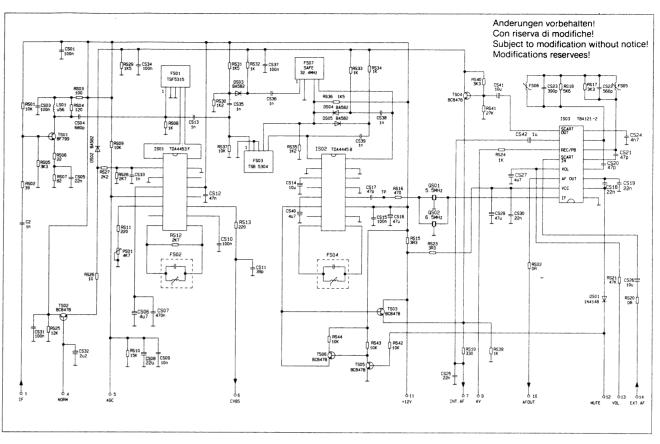
#### PAL/SECAM CHROMA IC TEA5640F



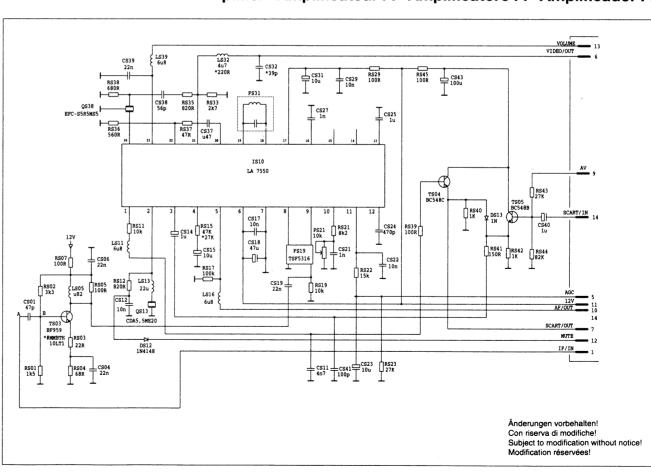
#### **VIDEO PROCESSOR IC TEA5040S**



# ZF-Verstärker IF 2149 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI



# ZF-Verstärker IF 2200 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador FI



Chas

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### dor FI

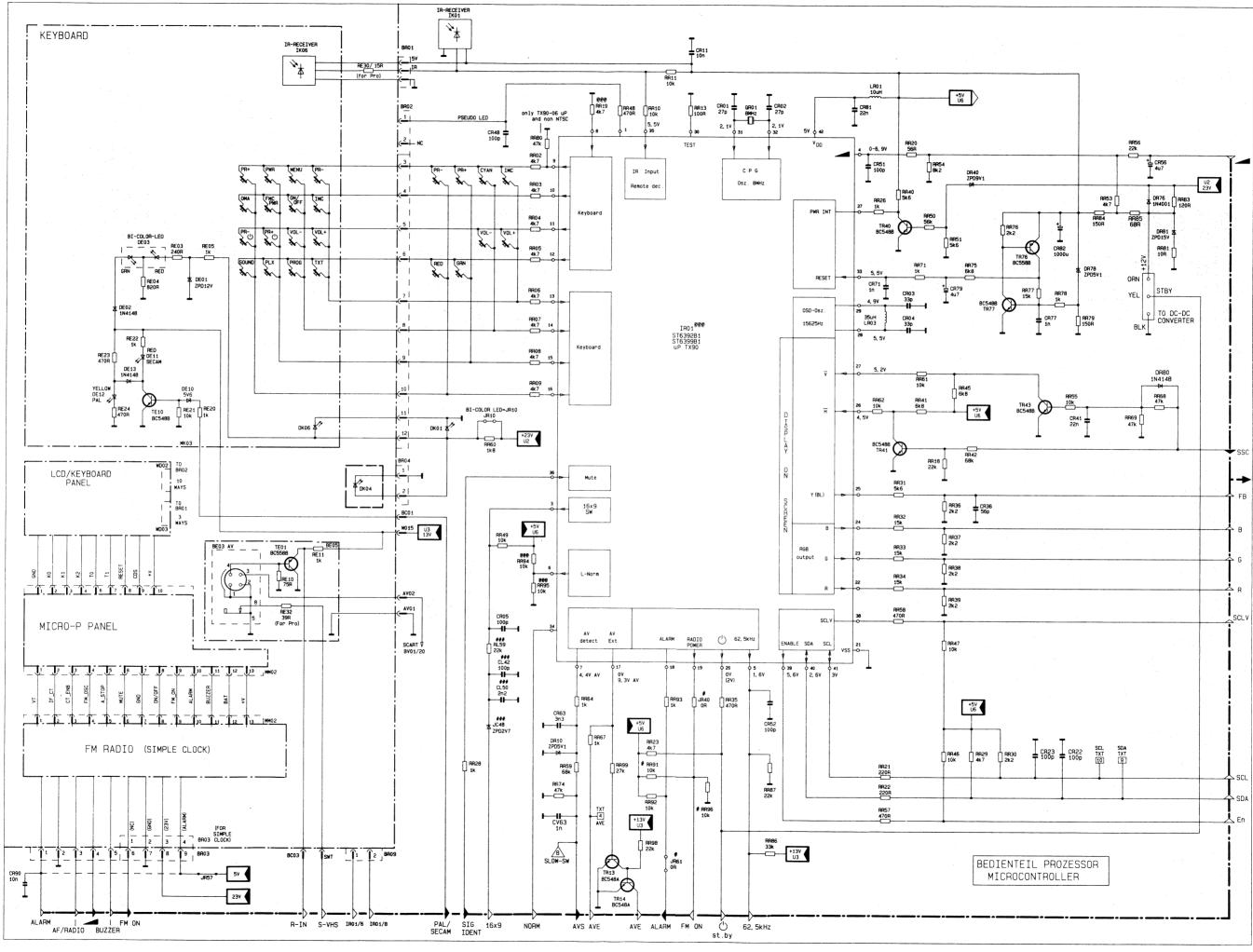


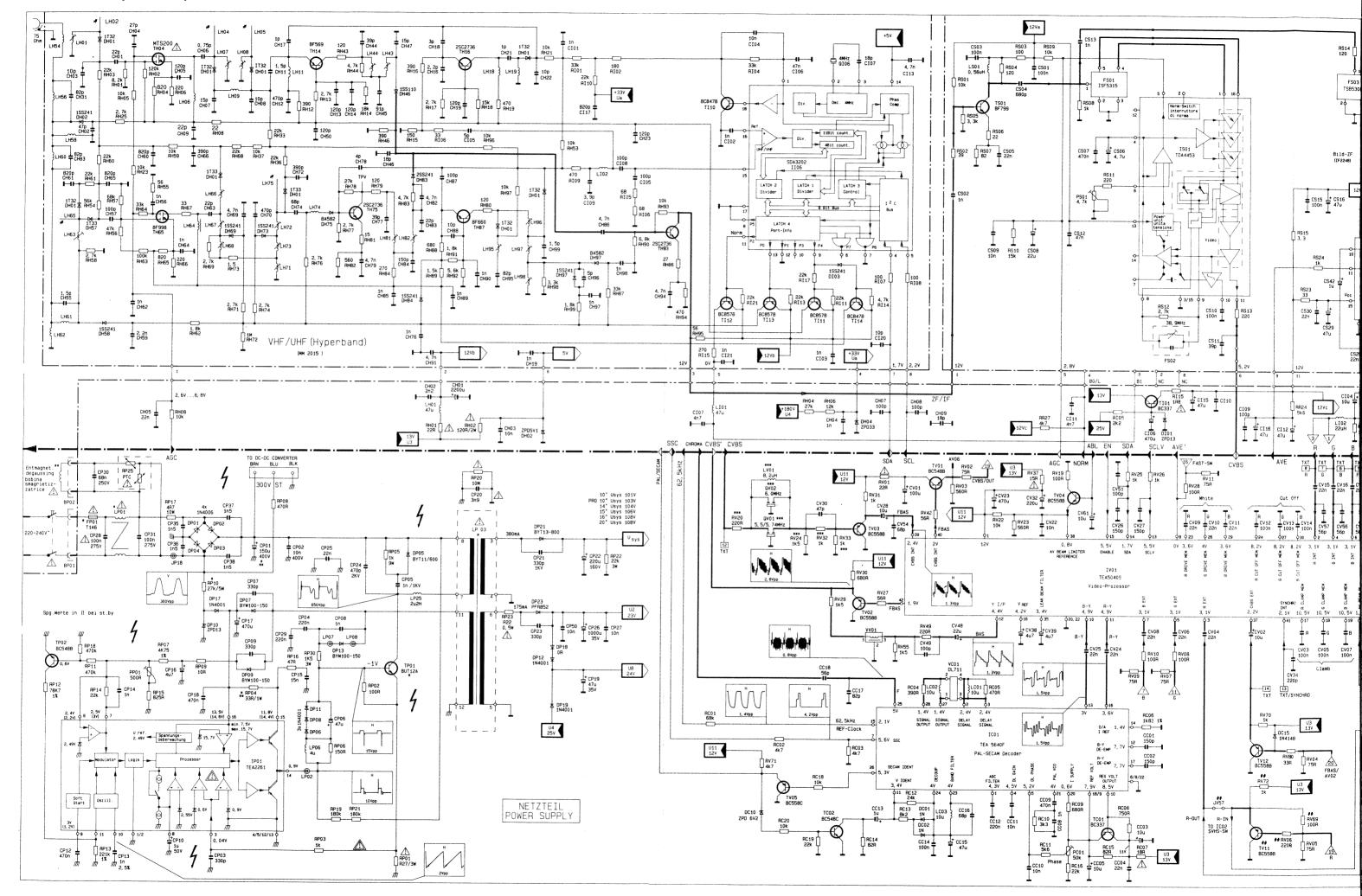


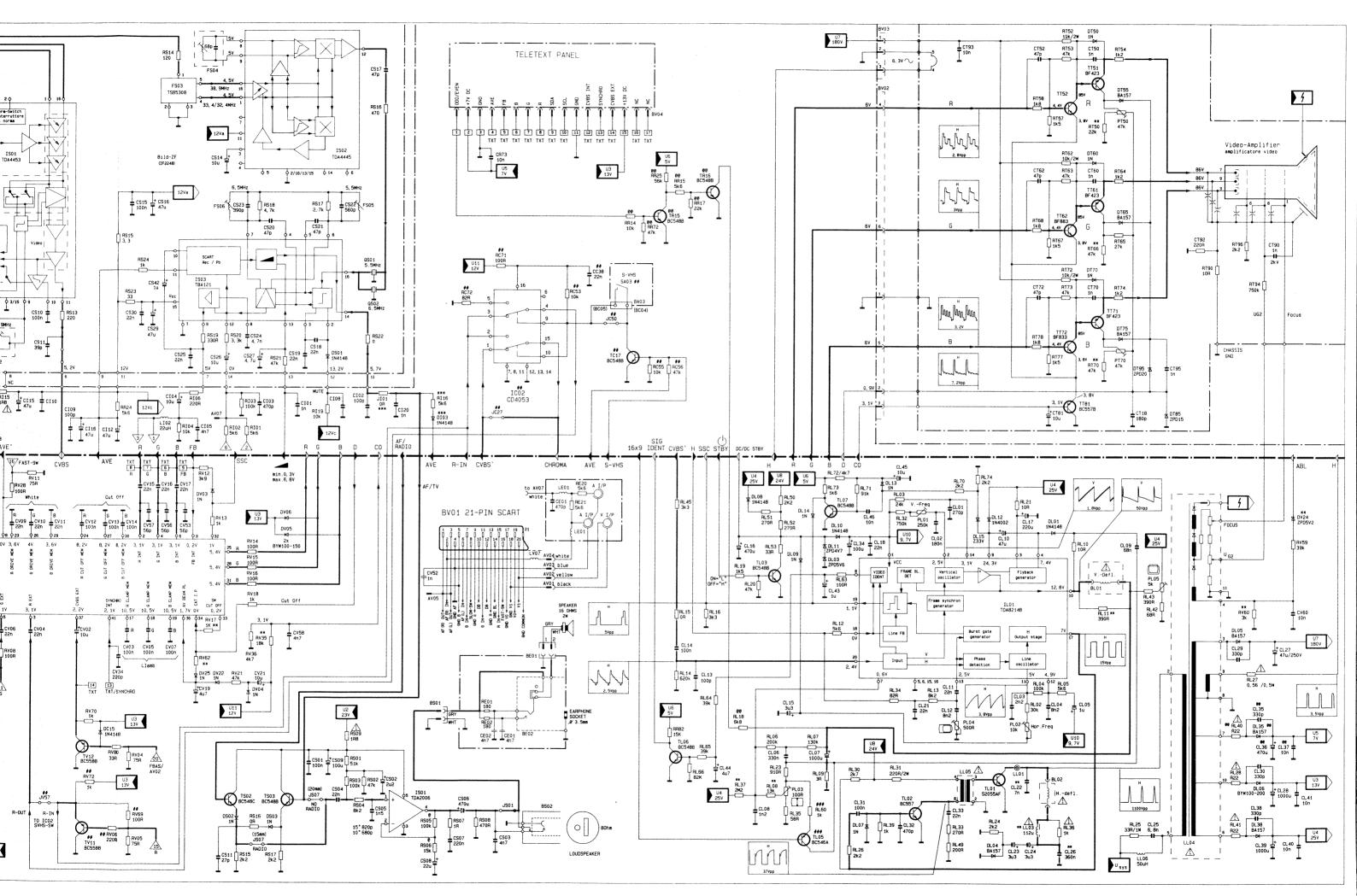
# dor FI



# Chassis TX 90 (Version 2)

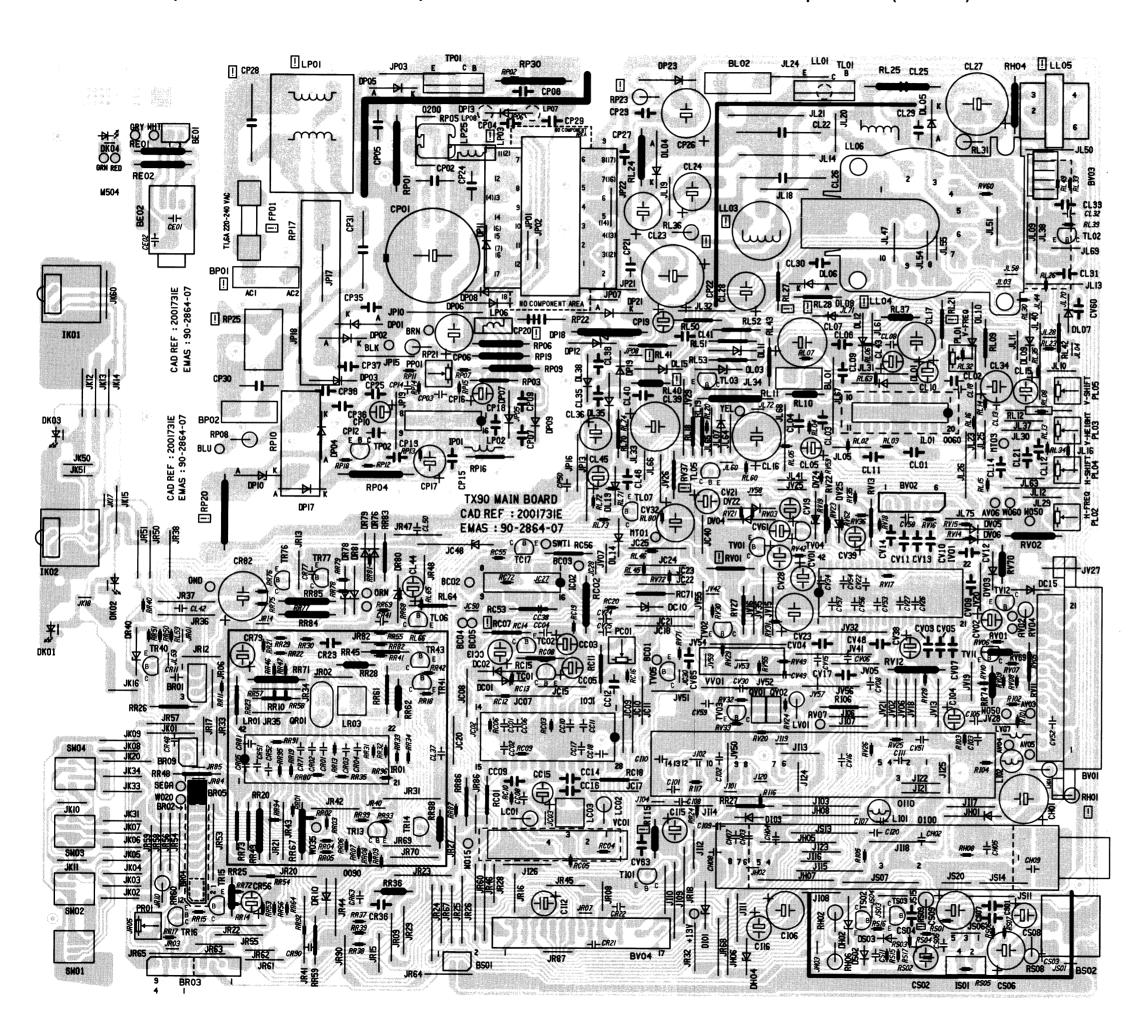








Lötseite · s



Das Chassis ist netzgetrennt. Die Trennstelle liegt im Netzteil. Um die VDE-Sicherheit zu gewährleisten, ist nach einer Reparatur sicherzustellen:

- 1. Auf Luft- und Kriechstrecken achten! Z. B. durchstehende Drähte ausgewechselter
- 2. Sicherheitsbauteile A nur gegen Original-Ersatzteile auswechseln (siehe Stromlaufplan).

The chassis is isolated from line voltage. The isolation point is in the line section. In order to insure safety as per VDE requirements, the following must be checked after any repairs:

- Check for air gap and leakage paths! For example, protruding ends of wires passing through the board must be cut off short.
- 2. Components with an essential safety function are to be replaced only with originalequipment parts (see circuit diagram).

Le chassis est séparé du réseau. La séparation est située dans la partie alimentation. Pour assurer la sécurité au regard des normes VDE, après une réparation, il convient de veiller à

- 1. Prévenir des formations de circuits aériens ou rampants. Par ex. couper court les fils qui dépassent ou les éléments de construction
- 2. N'échanger les éléments de sécurité A que contre des pièces de rechange d'origine (cf. plan de passage du courant).

Il telaio é separato rete. Il punto di separazione risieda tra sezione rete. Per garantire la sicurezza VDE a riparazione effettuata deve essere assicu-

- 1. Tenere conto delle distanze dei componenti e dei percosi! p.e. i terminali in passaggio dei componenti sostituiti devono essere tagliati
- 2. Componenti di sicurezza  $ext{$\Delta$}$  devono essere sostituiti solamente con ricambi originali (vedere schema).

El chasis está aislado de la red. La separación se produce en la fuente de alimentación. Para garantizar la seguridad en cumplimiento de las normas VDE, después de una reparación, asegurarse de lo siguiente.

- 1. Mantener la distancia entre componentes. Por ejemplo, cortando todo lo posible los hilos y terminales que sobresalgan de las pistas del circuito impreso.
- 2. Los componentes marcados en el esquema con el símbolo  $\Delta$  deben ser substituidos por repuestos originales (ver esquema).

# Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base (Version 2)

Lötseite · solder side · côté soudure · lato saldature · lado soldaduras

nstelle liegt u gewährrzustellen:

wechselter

riginal-Erlaufplan).

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eparazione a sicurezza ere assicu-

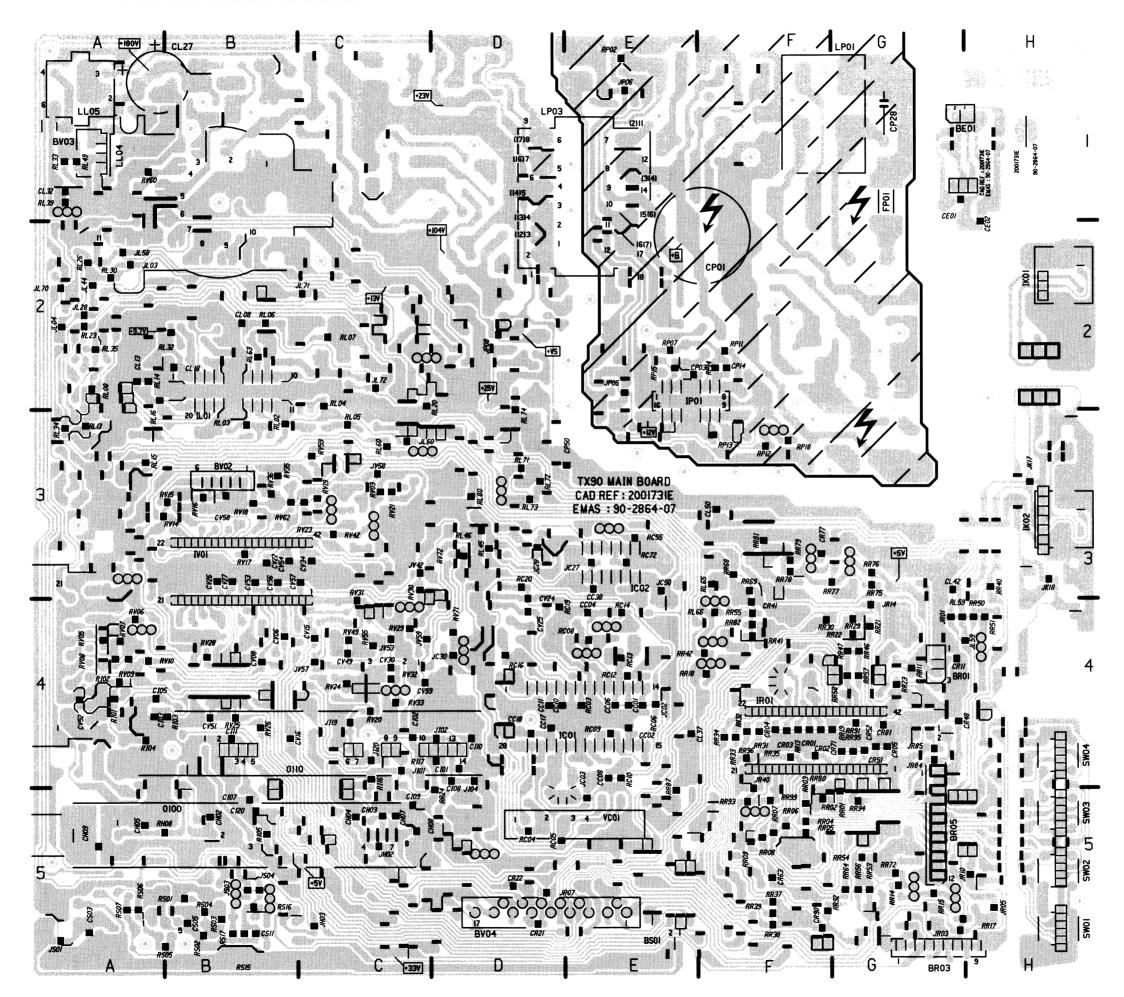
saggio dei ere tagliati

no essere i originali

aración se . Para gade las norasegurar-

entes. Por los hilos y pistas del

esquema tuidos por



# Wertetabellen · Tables of values

#### Tabelle / Table 1 @@@

P05.N0.	N	MSTD			
IR01	08 (Hotel)	0.8	0.7	07	
RR19	-	100p	-	-	
RR94		-	-	10K	
RR95	-	100p	10K	-	

#### Tabelle / Table 2 \*

	* SMPS	
ITEM	176-264VAC	90-264VAC
RP10	27K/5₩	10K/5W
RP04	33/1₩	27/1W
TP01	BUT12A	BUH314TH
LP03	SMV42-20	SMV42-18
LP01	ELF-180650HJ	ELF-18DG851N
FP01	T1.8A	T2.5A

#### Tabelle / Table 3 \*

abell	e / Table 3 **					
ITEM	DESCRIPTION	10*	14*	15*	16"	20"
CL22	HORI. RETRACE CAPACITOR	7n/1K6V (T) 6n8/1K6V (S)	6 m 5 / 1 . 6 K V	7n/1.5KV	8n4/1.6KV	8 n 2 / 1 . 6 KV
CL 26	HORI. LINEARITY CAPACITOR	360n/250V	360n/250V	360n/250V	470 n/250V	470n/250V
0724	VIDEO REF ZENER	ZPD5V6	ZPD6V2	ZPD6V2	ZPD6V2	ZPD6V2
LL03	HORI. LINEARITY COIL	112 u H	90 u H	112uH	58 uH	58 uH
LL04	FLYBACK TRANSFORMER	2436914	2436218	2436913	2436893	2436892
P104	DEGAUSSING COIL	DC-1003A	DC-993	DC-975	DC-9010-16	DC-931
RL08	DC BIAS OF VERT O/P RES.	+-1% 13K/0.1W	+-1X 13K/0.1W	+-1% 13K/0.1W	+-1% 13K/0.1W	+-1% 12.1K/0.1W
RL11	VERTICAL DAMPER RESISTOR	390/0.7W	680/0.7 <b>W</b>	390/0.7W	390/0.7W	390/0.7W
RL 37	DC BIAS OF VERT OUTPUT RESISTOR	2142	2 M 2	2 W 2	4M7	2 M 2
RP01	SMPS I SENSING RESISTOR	R27/3W	R27/3W	R27/3W	R27/3W	R22/3₩
RL27	HEATER RESISROR	0.56/0.5W	1.5/0.5W	1R/0.5W	0.56/0.5W	0.56/0.5W
RL28	+13V FUSIBLE RESISTOR	0.22/0.5W	0.22/8.3W	0.22/0.3W	0.22/0.3W	0.22/0.3₩
RV 17	CATHODE CURRENT RESISTOR	1K2 PRO 2K7	1 K 0	1 K O	820	750
RV23	AVERAGE I-BEAM RESISTOR	560	470	560	560	680
RV35	AV BEAM RESISTOR	18K	18K	18K	18K	15K
8760	ABL DIVIDER RESISTOR	3KO PRO 2K2	1 K	1 K	1 K	1 K
RV62	AV BEAM RESISTOR	0 R	OR	0R	1 K 8	1 K B
RT66	WHITE-BALANCE RESISTOR	68K	47K	47K	8 2 K	8 2 K
3010	SPEAKER	16/2W	16/2W	16/3W	16/3W	8/4W
RT50	WHITE-BALANCE RESISTOR	22 K	22K	22K	47K	33K
RT 70	CRT PANEL WHITE-BALANCE	47K	47K	47K	68K/0.25W	47K/0.25W

#### Tabelle / Table 5 @@

ITEM	DESCRIPTIONS
BV04	WAFER 17-WAYS
CL 35	CC 330p/50V
CL36	CE 470u/16V
CL37	CPM 10n/63V
DL35	DIODE BA157
RL18 10"	-
RL18 14"	RCF 6K8/0.25W
RL18 15"	RCF 5K6/0.25W
RL18 16"	RCF 5K6/0.25W
RL18 20"	RCF 5K6/0.25W
RL40	RCFF R22/0.3W
RR14	RCFCC 10K/0.1W
RR15	RCFCC 5K6/0.1W
RR17	RCFCC 22K/0.1W
RR25	RCFCC 56K/0.1W
TR15	TR. BC548B
TR16	TR. BC548B
FOR FAST-TEXT IC	IC SOCKET 42-P
SOCKET IS ADDED TO	SHRINKED DIP
IRO1 MICRO-P IC	

#### Tabelle / Table 6 @

			RS05			1		RS	0.6		RR20
0	10"	14"	15*	16"	20"	10"	14"	15"	16"	20*	ALL
PAL/SECAM 2108TX	82K	100K	9 1 K	100K	100K	11K	9 K 1	10K	10K	10K	5.6
PAL/SECAM 2149	100K	100K	56K	68K	75K	24K	11K	12K	11K	15K	56
PAL/SECAM 2248	62K	100K	5 8 K	68K	68K	13K	11K	11K	10K	12K	56
PAL BG 2200	9 † K	100K	82K	100K	91K	15K	10K	11K	10K	12K	5.6
PAL 1 2205	82K	100K	82K	100K	91K	13K	9 K 1	11K	10K	12K	56

#### Tabelle / Table 7 ##

POS.NO.	W/O S-VHS	S-VHS VIA SCART	S-VHS SOCKET	TOCOM
CC38	-	CCCC 22n	CCCC 22n	50107900
1002	-	HCF 4053	HCF 4053	46006700
JC23	-	STRAP 15mm	-	67057001
JC24	-	STRAP 15mm	STRAP 15mm	67057001
JC25	-	STRAP 15mm	-	67057001
JV50		STRAP 10mm	STRAP 10mm	67056601
JV52	-	STRAP 20mm	-	67057401
J V 5 4	-	STRAP 20mm	-	6705740
JV55	-	STRAP 10mm	-	67056601
JV59	-	RCFCC OR	RCFCC OR	90541136
RC53	-	RCF 10K	RCF 10K	41001602
RC55	_	RCFCC 10K	RCFCC 10K	20110300
RC56	-	RCF 47K	RCF 47K	41001902
RC71	-	RCF 100R	RCF 100R	41010708
RC72	-	RCFCC 82R	-	70103500
RV72	-	RCF 1K	-	10327800
TV11	-	TRBC5588	-	45002656
JC27	RCFCC OR	-	-	90541136
JV57	RCFCC OR	-	RCFCC OR	90541136
RV69	RCF 100R	-	RCF 100R	41002820
RVD6	-	RCFCC 220R	-	80077900
JC50	-	-	RCFCC OR	90541136
OTHER	-	TX90 SWITCH BD	CONTROL BD WITH S-VHS SOCKET	20110190

# Tabelle / Table 4 \*\*\*

COLOUR	PAL/SECAM	PAL/SECAM	PAL/SECAM	PAL/SECAM	SECAM	PAL	PAL	PAL
T V	BGHILL BGILL	BGLDKK.	BGDKK.	B G	II.,	BG	BG	1
TUNER	2015	2015	2015	2015/2003	2007	2015	2003	2011
TUNER	HYPERBAND	HYPERBAND	HYPERBAND	HYP/-	-	HYPERBAND	-	-
IF-MODULE	2108TX	2149	2248	2200	2130TX	2200	2200	2205
LV01	8.2 u H	8.2uH	8.2 uH	10 uH	10 uH	10 u H	1 Du H	18 u H
QV01	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TPW04B 5.5/5.74MHz	TW04B 5.5/5.74	TPS6,5MB 6.5MHz	TPW04B 5.5/5.7MHz	TPW048 5.5/5.74NHz	-
QV02	TPS6.OMB 6.DMHz	TPS6.5MB 6.5MHz	TPS6.5MB 6.5MHz	-	-	-	-	TPS6.0MB
RV20	200	200	200	200	560	220	180	560
RV24	1K5	1 K 2	1 K 8	1 K 5	2 K 2	1 K 5	1 K 5	-
RV32	1 K 2	1 K	1 K 2	750	1 K	750	750	560
RR20	56	5.6	56	5.6	-	56	56	5.6
RS05	0	0	0		-		0	
RS06		0	e	e	-	8	6	e
RR94	-	-	-	-	1 0 K	-	-	-
J101	1 <b>K</b> 5			0 R				
R116	5 K 6			-				
D103	184148			-				

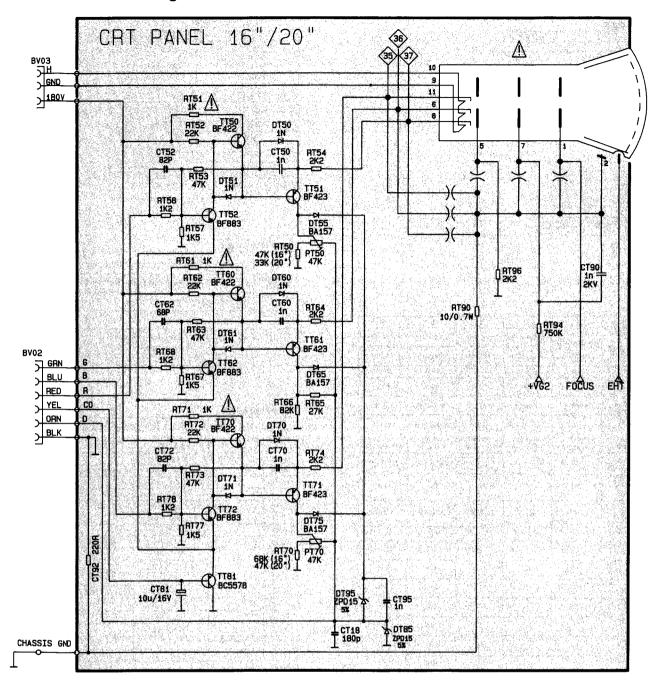
#### Tabelle / Table 8 ###

POS.NO.	16 X 9		NO 16 K 9
JC48	DIODE ZPD 2V7	44025102	
RL 60	ROFCOMIN 1KO	10327800	
TL 05	TR BC5488	45002156	
'CL50	CCCCMIN 2n2	50220900	
CL42	CCCCMIN 100p	90207100	
J160	RCFCC OR	90541136	
JL 67	STRAP 20mm	67057401	
J1.63	STRAP 7.5mm	67056901	
RL59	RCFCCMIN 22K	60080300	
J1.59	RCFCC OR	90541136	
RR49	RCF 10K	41001602	RCF 10K 41001602
CR05	CCCMIN 1n	10311300	CCCMIN In 10311300

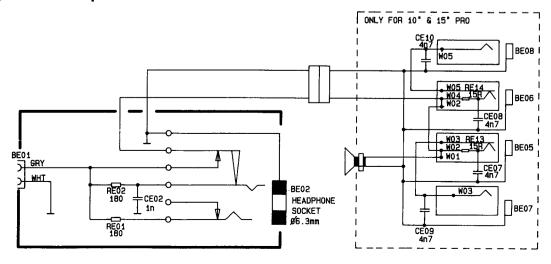
#### Tabelle / Table 9 #

POS.NO.	NO. CLOCK	RADIO CLOCK	SIMPLE CLOCK
RR91	-	10K	
RR96	-	-	1 0 K
JR40	-	OR	OR
JRB1	-	0 R	OR

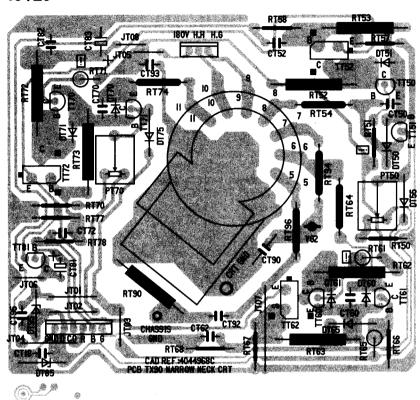
Bildröhrenplatte 16"/20" · Picture tube board · Platine tube image · Basetta Cinescopio · Placa de tubo de imagen



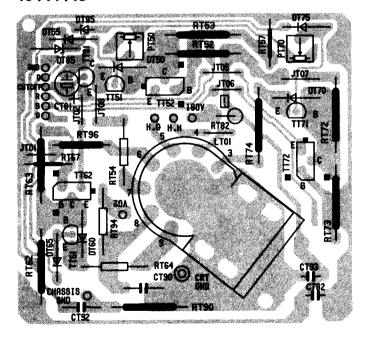
# Lautsprecheranschluß · Speaker connection · Connexion haut-parleur · Collegamento altoparlante - 10"/15" PRO

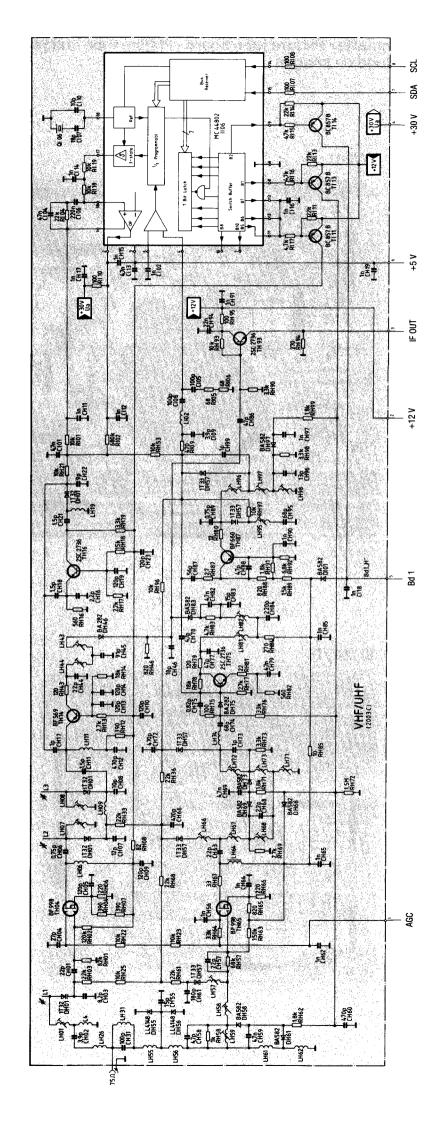


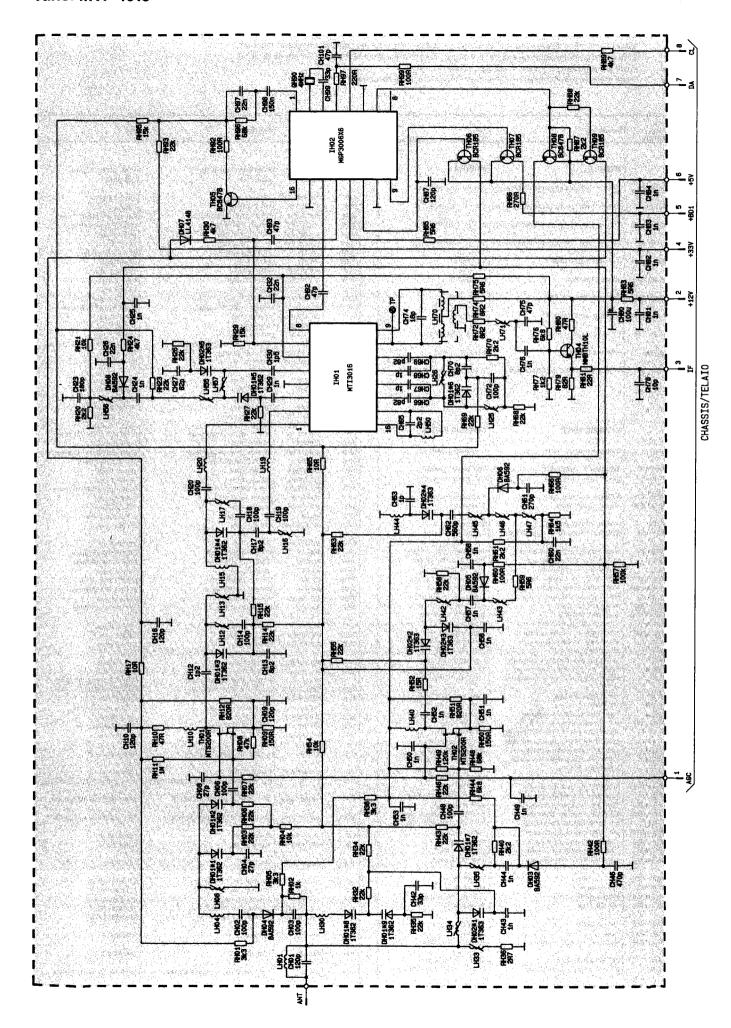
16"/20"



10"/14"/15"







# Ersatzteilliste $\cdot$ Spare parts list $\cdot$ Liste de pièces de rechange $\cdot$ Lista parti di ricambio $\cdot$ Lista de piezas de recambio

Wichtig: N.B.:

Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!

Important:

When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!

Importante: Importante:

Ordinare sempre con il numero corrispondenti di codice!

Pedir siemple lis recambios con el numero correspondiente de codigo!

	- N			] [	ArtNr	T	
Pos.	ArtNr Part No.	Bezeichnung	Part	Pos.	Part No.	Bezeichnung	Part
<u> </u>	No.articolo			†	No.articolo		
		MODULE:	MODULE:	DK01 DK01	246.056 246.060	HLMP-D150 LED Diode Halter, LED	HLMP-D150 LED Diode LED holder
CRT 10°	201.857.60	CRT 10° TX90 LTP BILDROHRANSCHLUSS	CRT 10" TX90 PCB CRT				
CRT 14*	349.377.004	CRT 14" TX90 LTP BILDROHRANSCHLUSS	CRT 14° TX90 PCB CRT	DL01 DL02	309.325.927 339.529.300	1N4148 Diode 1N4002 Diode	1N4148 Diode 1N4002 Diode
				DL03	273TX0319	BZX83C15V ZENER Diode	BZX83C15V ZENER Diode
CRT 16*	490,008,1355	CRT 16" TX90 LTP BILDROHRANSCHLUSS	CRT 16" TX90 PCB CRT	DL03 DL04	309.325.196 309.325.056	ZPD5V6 ZENER Diode BA157 Diode SSW	ZPD5V6 ZENER Diode BA157 Diode
CRT 20"	201.081.30	CRT 20" TX90 LTP BILDROHRANSCHLUSS	CRT 20" TX90 PCB CRT	DL05	309.325.056	BA157 Diode SSW	BA157 Diode
IF2110	256.815	IF2110 ZF-VERSTÄRKER	IF2110 UNIT	DL06 DL06	239.254 464.871	BYW100-200 Diode BA157 Diode	BYW100-200 Diode BA157 Diode
				DL07	309.325.927	1N4148 Diode	1N4148 Diode
IF2149	490.007.8266	IF2149 ZF-MODUL	IF2149 UNIT	DL08 DL09	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode
IF2200	490.007.8988	IF2200 ZF-VERSTÄRKER	1F2200 UNIT	DL10	309.325.927	1N4148 Diode	1N4148 Diode
IF2248	490.007.8982	IF2248 ZF-VERSTÄRKER	IF2248 UNIT	DL11 DL12	273TX5032 339.529.300	ZPD4,7 5% ZENER Diode 1N4002 Diode	ZPD4,7 5% ZENER Diode 1N4002 Diode
			MTP-8G2003.01 TUNER	DL 13 DL 14	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode
MTP2003	349.357.096	MTP-BG2003.01 TUNER	M1P-BG2003.01 TONER	DL 14 DL 15	256.333	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
MTP2015	252.758	MTP2015 TUNER	MTP2015 TUNER	DL35 DL38	309.325.056	BA157 Diode SSW	BA157 Diode BA157 Diode
VT9004	204.663.90	VT9004 TX90 VIDEOTEXT-DECODER	VT9004 TX90 PCB TELETEXT	DL38	309.325.056	BA157 Diode SSW	DAIS/ DIOGE
				DP01 DP02	462.268 462.268	1N4006 Diode 1N4006 Diode	1N4006 Diode 1N4006 Diode
				DP03	462.268	1N4006 Diode	1N4006 Diode
				DP04	462.268	1N4006 Diode	1N4006 Diode
		0114 0010 TE " T	01140010 24270	DP05 DP06	490.001.1567 273TX0025	BYT11-600 Diode 1N4001 Diode	BYT11-600 Diode 1N4001 Diode
		CHASSIS-TEILE	CHASSIS PARTS	DP07	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
BE02	243.876	Buchse, Kopfhörer, 3,5mm	Headphone socket	DP08 DP09	273TX0025 339.527.021	1N4001 Diode MUR115/BYW100-150 Diode	1N4001 Diode MUR115/BYW100-150 Diode
			3 nin contact housing	DP10	464.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode
BR01 BR09	804.085.95 404.060.81	Stiftgehäuse, 3polig, natur Stiftgehäuse, 2polig, natur	3 pin contact housing 2 pin contact housing	DP11 DP12	273TX0025 273TX0025	1N4001 Diode 1N4001 Diode	1N4001 Diode 1N4001 Diode
			2 nin contant hous!	DP13	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
BS01 BS02	404.060.81 490.007.8958	Stiftgehäuse, 2polig, natur Buchse, Lautsprecher	2 pin contact housing Speaker jack	DP17 DP19	273TX0025 273TX0025	1N4001 Diode 1N4001 Diode	1N4001 Diode 1N4001 Diode
				DP21	252.381	BYT13-800 Diode	BYT13-800 Diode
BV01 BV04	243.877 309.117.54	Buchse, Euro AV (SCART) Stiftleiste, 17polig, für VT-Decoder TX90	Scart socket Contact strip, 17-pole	DP23	490.008.0461	PFR852 Diode	PFR852 Diode
				DR07	309.325.927	1N4148 Diode	1N4148 Diode
CL22 CL22	200.996.90 243.878	5NBF 1K6V 3,5% Filmkondensator 7NF 1K5V 3,5% Filmkondensator	5N8F 1K6V 3,5% Film cap 7NF 1K5V 3,5% Film cap	DR10 DR40	256.421 256.736	ZPD5V1 ZENER Diode ZPD9V1 ZENER Diode	ZPD5V1 ZENER Diode ZPD9V1 ZENER Diode
CL22	249.180	8N2F 1K6V Filmkondensator	8N2F 1K6V Film cap	DR76	339.525.013	1N4001 Diode	1N4001 Diode
CL22 CL22	490.007.8950 490.008.0865	6N5F 1K6V 3,5% Filmkondensator 6N8F 1K6V Filmkondensator	6N5F 1K6V 3,5% Film cap 6N8F 1K6V Film cap	DR78 DR79	256.421 256.421	ZPD5V1 ZENER Diode ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode ZPD5V1 ZENER Diode
CL22	905.659.10	8N6F 1K6V 3,5% Filmkondensator	8N6F 1K6V 3,5% Film cap	DR80	309.325.927	1N4148 Diode	1N4148 Diode
CL23 CL24	490.007.8233 490.007.8233	3U3F 160V 20% Elko 3U3F 160V 20% Elko	3U3F 160V 20% E cap 3U3F 160V 20% E cap	DR81	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode
CL26	266.729	300NF 250V 3,5% Filmkondensator	300NF 250V 3,5% Film cap	DS02	309.325.927	1N4148 Diode	1N4148 Diode
CL26 CL26	309.434.626 440.089	360NF 250V 5% Filmkondensator 470NF 250V 5% MPP-Kondensator	360NF 250V 5% Film cap 470NF 250V 5% MPoly cap	DS03	309.325.927 309.325.927	1N4148 Diode	1N4148 Diode
CL27	246.740	47U, 250V ELKO	47UF 250V E cap	DS30	309.325.92/	1N4148 Diode	1N4148 Diode
CL29 CL30	266.243 266.243	330PF 1KV 10% Keramik-Kondensator 330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap 330PF 1KV 10% C cap	DV03	309.325.927	1N4148 Diode	1N4148 Diode
CL38	243.879	330PF 10% Keramik-Kondensator	330PF 400V 20% C cap	DV04 DV05	309.325.927 339.527.021	1N4148 Diode MUR115/BYW100-150 Diode	1N4148 Diode MUR115/BYW100-150 Diode
CP01	243.351	150UF 385V 20% Elko	150UF 385V 20% E cap	DV06	339.527.021	MUR115/BYW100-150 Diode	MUR115/BYW100-150 Diode
CP01	243.351 243.880	150UF 400V 20% Elko	150UF 400V 20% E cap	DV22 DV24	309.325.927 246.395	1N4148 Diode ZPD6V2 ZENER Diode	1N4148 Diode ZPD6V2 ZENER Diode
CP02 CP05	260.535	10NF 400V 20% MP-Kondensator 1NF 1KV Keramik-Kondensator	10NF 400V 20% MP cap	DV25	309.325.927	1N4148 Diode	1N4148 Diode
CP07	309.442.977 243.879	330PF 400V 20% Keramik-Kondensator	1NF 1KV C cap 330PF 400V 20% C cap	DV38 DV40	464.372 309.325.927	ZPD6,8 ZENER Diode 1N4148 Diode	ZPD6,8 ZENER Diode 1N4148 Diode
CP09 CP20	243.879 261.818	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap 3N9F 400V 20% C cap	ł			
CP21	266.243	3N9F 400V 20% Keramik-Kondensator 330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap	FP01	467.089	GSchmelzeinsatz, T 1,6A III	Glass fuse, T 1,6A
CP22 CP23	243.881 243.879	220UF 160V 20% Elko 330PF 400V 20% Keramik-Kondensator	220UF 160V 20% E cap 330PF 400V 20% C cap	IC01	490.007.8241	TEA5640F IC	TEA5640F IC
CP24	309.442.975	470PF 2KV Keramik-Kondensator	470PF 2KV C cap	IC02	411.714	MC14053B/HEF4053B/TC4053B/BU4053B IC	MC14053B/HEF4053B/BU4053B IC
CP28 CP28	252.320 309.440.680	0U1F 275V 20% MP-Kondensator 10NF 275V Keramik-Kondensator	0U1F 275V 20% MPoly cap 10NF 275V C cap	IE01	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	INFRA-RED PRE-AMPLIFIER
CP30	316.920.6000	68NF 250V 10% MP-Kondensator	68NF 250V 10% MPoly cap	IK02	490.007.8242	GP1U73QF IR-VORVERSTÄRKER	INFRA-RED PRE-AMPLIFIER
CP31 CP35	252.320 309.442.972	0U1F 275V 20% MP-Kondensator 1N5F 1KV Keramik-Kondensator	0U1F 275V 20% MPoly cap 1N5F 1KV C cap				
CP36	309.442,972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap	IL01 IL01	201.156.90 490.007.8268	TDA8214B IC TDA8218 IC	TDA8214B IC TDA8218 IC
CP37 CP38	309.442.972 309.442.972	1N5F 1KV Keramik-Kondensator 1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap 1N5F 1KV C cap				
			•	IP01	309.368.549	TEA2261 IC	TEA2261 IC
DC01 DC02	309.325.927 309.325.927	1N4148 Diode 1N4148 Diode	1N4148 Diode 1N4148 Diode	IR01	201.483.70	ST6392B1/ZP TX90-08 IC	ST6392B1/ZP IC
DC10	309.325.196	ZPD5V6 ZENER Diode	ZPD5V6 ZENER Diode	IR01	243.884 309.689.966	ST6399B1/KM IC IC IC-Fassung, 42polig	ST6399B1/KM IC IC socket, 42pole
DC15	309.325.927	1N4148 Diode	1N4148 Diode	IR01	490.008.0462	ST6399B1/KU TX90-05 IC	ST6399B1/KU IC
DE02	309.325.927	1N4148 Diode	1N4148 Diode	IR01	490.008.1359	ST6392B1/TT TX90-07 IC	ST6392B1/TT IC
DE03 DE03	201.258.7A 309.327,134	Halter, LED MV5491A LED ROT/GRÜN Dicde	LED holder MV5491A LED Diode	IS01	411.673	TDA2006 IC	TDA2006 IC
				IV01	243.885	TEA5040S-3 IC	TEA5040S-3 IC
DH02 DH04	256.421 256.333	ZPD5V1 ZENER Diode ZPD33V 0,5W 2% ZENER Diode	ZPD5V1 ZENER Diode ZPD33V 0,5W 2% ZENER Diode	1 1			
				JL15	276.873	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
DI01	484.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode				
		1			<del></del>		

# Ersatzteilliste $\cdot$ Spare parts list $\cdot$ Liste de pièces de rechange $\cdot$ Lista parti di ricambio $\cdot$ Lista de piezas de recambio

Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben! When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce! N.B.: Important:

Importante:

Ordinare sempre con il numero corrispondenti di codice!

Importante: Pedir siemple lis recambios con el numero correspondiente de codigo!

					r		T
L	ArtNr	B. and the same	Part	Pos.	ArtNr Part No.	Bezeichnung	Part
Pos.	Part No. No.articolo	Bezeichnung	Fait	, ds.	No.articolo	Data on the same of the same o	· - ·
LC01	309.250.966	10UH 10% Drossel	10UH 10% Choke	RP17	490.007.8263	4R7 10W 5% Drahtwiderstand	4R7 10W 5% Wire resistor
LC02	309.250.966	10UH 10% Drossel	10UH 10% Choke	RP20	406.517	10MR 0,7W 5% Schichtwiderstand	10MR 0,7W 5% Film resistor
LC03	243.886	10UF 5% Drossel	10UF 5% Choke	RP22 RP23	239.203 243.903	22KR 3W 5% Metalloxydwiderstand 0R22 0,5W 5% Sicherheitswiderstand	22KR 3W 5% Metal oxide resistor 0R22 0,5W 5% Fusible resistor
LE01	339,349,566	2X400UH Netzeingangsdrossel	2X400UH Power choke	RP25	309.560.952	25R PTC-Widerstand	25R PTC resistor
1	000.045.000	ZATOO STITUTE SINGUITE STITUTE		RP30	243.907	1K5R 3W 5% Metalloxydwiderstand	1K5R 3W 5% Metal oxide resistor
LH01	309.249.342	47UH Drossel	47UH Choke				
1			471114 Challes	RR63	256.418	BZX55C5V1 ZENER Diode	BZX55C5V1 ZENER Diode
L101 L102	309.249.342 256.493	47UH Drossel 22UH 10% Drossel	47UH Choke 22UH 10% Choke	RS09	200.502.00	1R8 0,35W 5% Sicherheitswiderstand	1R8 0,35W 5% Fusible resistor
L102	230.493	22011 10 % 5103501		RS09	309.580.967	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
LL01	339.349.553	Ferritperle	Ferrite bead	ŀ			
LL03	201.841.30	250UH Spule, H-Linearität	250UH H-Linearity coil	RV01	309.534.654	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
LL03	243.452 256.863	90UH Spule, H-Linearität 112UH Spule, H-Linearität	90UH H-Linearity coil 112UH H-Linearity coil	RV37	276.042 276.873	15R 0,35W 5% Sicherheitswiderstand 10R 0,3W 5% Sicherheitswiderstand	15R 0,35W 5% Fusible resistor 10R 0,3W 5% Fusible resistor
LL03	309.249.377	58UH Spule, H-Linearität	58UH H-Linearity coil	RV37	335.550.6100	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor
LL04		Diodensplit-Trafo, TX90 16*	Diode split transformer		1		
LL04	201.827.60 S	Diodensplit-Trafo, TX90 10* SAMSUNG	Diode split transformer	SE01-04	105.106.00	Taktschalter	Tact switch
LL04	i .	Diodensplit-Trafo, TX90 10"	Diode split transformer Diode split transformer	SE05	201.260.10	Netzschalter, 4A 250V	Mains switch
LL04 LL04		Diodensplit-Trafo, TX90 14* Diodensplit-Trafo, TX90 20* (2436892)	Diode split transformer	SW01-04	309.639.035	Taktschalter	Tact switch
LL04	490.008.0866 S		Diode split transformer				
LL05	243.888	Treibertransformator	H-Driver transformer	TC01	270TX5025	BC635 Transistor	BC635 Transistor
LL06	309.250.964	50UH Drossel	50UH Choke	TC01	339.556.900 463.045	BC635 Transistor BC337 Transistor	BC635 Transistor BC337 Transistor
LP01	309.259.013	Siebdrossel	Filter choke	TC02	309.001.360	BC550B Transistor	BC550B Transistor
LP01	490.008.0542	Siebdrosset	Filter choke	TC02	463.223	BC548C Transistor	BC548C Transistor
LP03	239.211	Trafo, Schaltnetzteil	Switched mode power transformer			l	DOMESTIC TO 1 1 1
LP03	243.889	Trafo, Schaltnetzteil	Switched mode power transformer	TE01	465.981	BC557B Transistor	BC557B Transistor
LP03	490.008.0463	Trafo, Schaltnetzteil	Switched mode power transformer 4UH 25% Choke	TI01	243.908	BC637 Transistor	BC637 Transistor
LP06 LP07	243.890 339,349.553	4UH 25% Drossel Ferritperle	Ferrite bead	TI01	463.045	BC337 Transistor	BC337 Transistor
LP08	339.349.553	Ferritperle	Ferrite bead				
LP25	243.872	2U2H 25% Drossel	2U2H 25% Choke	TJ01	266.430	BC558/A* Transistor selektiert	BC558/A* Transistor
			1011H Chake call	TJ02 TJ03	463.222 309.001.226	BC548B Transistor BC558B Transistor	BC548B Transistor BC558B Transistor
LR01 LR01	266.408	10UH Drossel 10UH 10% Drossel	10UH Choke coil 10UH 10% Choke	TJ04	309.001.226	BC558B Transistor	BC558B Transistor
LR03	309.250.966 490.007.8251	Filter	Filter				
				TL01	309.005.026	S2055AF Transistor	S2055AF Transistor
LV01	309.250.966	10UH 10% Drossel	10UH 10% Choke	TL01 TL02	339.872.711 463.045	Montageclip BC337 Transistor	Clip BC337 Transistor
LV01	426.035	8U2H 10% Drossel	8U2H 10% Choke 27UH Filter	TL02	463.159	BC639 Transistor selektiert	BC639 Transistor
LV02 LV06	309.249.344 256.493	27UH Filter 22UH 10% Drossel	22UH 10% Choke	TL03	309.001.293	BC548B Transistor	BC548B Transistor
LV06	339.349.058	39UH Resonanzspule	39UH Peaking coil	TL04	243.908	BC637 Transistor	BC637 Transistor
		,		TL06	309.001.293	BC548B Transistor	BC548B Transistor
PC01	243.891	50KR 20% Trimmwiderstand	50KR 20% Trimmer resistor	TL07	309.001.293	BC548B Transistor	BC548B Transistor
PL01	243.892	250KR 20% Trimmwiderstand	250KR 20% Trimmer resistor	TP01	243.913	BUT12A Transistor	BUT12A Transistor
PLO2	243.892	10KR 20% Trimmwiderstand	10KR 20% Trimmer resistor	TP01	339.872.711	Montageclip	Clip
PL03	243.894	100R 20% Trimmwiderstand	100R 20% Trimmer resistor	TP02	463.223	BC548C Transistor	BC548C Transistor
PL04	243.895	500R Trimmwiderstand	500R Trimmer resistor	TR13	261.791	BC548A Transistor	BC548A Transistor
PL05	243.896	5KR 10% Trimmwiderstand	5KR 10% Trimmer resistor	TR14	261.791	BC548A Transistor	BC548A Transistor
PP01	243.897	500R 20% Trimmwiderstand	500R 20% Trimmer resistor	TR15	309.001.293	BC548B Transistor	BC548B Transistor
				TR16	309.001.293	BC548B Transistor	BC548B Transistor
QR01	490.007.8956	8MHZ Quarz	8MHZ Crystal	TR40 TR41	309.001.293	BC548B Transistor BC548B Transistor	BC548B Transistor BC548B Transistor
QV01	309.160.851	TPW04B Keramikfilter 5,74Mhz	TPW04B Ceramic filter	TR42	309.001.293 309.001.293	BC548B Transistor	BC548B Transistor
QV02	243.899	TPS6.5MB Keramikfilter	TPS6.5MB Ceramic filter	TR43	309.001.293	BC548B Transistor	BC548B Transistor
				TR44	309.001.293	BC548B Transistor	BC548B Transistor
RC07	243.900	22R 0,5W 5% Sicherheitswiderstand	22R 0,5W 5% Fusible resistor	TR76	309.001.226	BC558B Transistor	BC558B Transistor
RC07	309.533.636	18R 0,3W 5% Sicherheitswiderstand	18R 0,3W 5% Fusible resistor	TR77	309.001.293 352.113.3000	BC548B Transistor BC636 Transistor	BC548B Transistor BC636 Transistor
RE05	273TX0321	BZX83C12 ZENER Diode	BZX83C12 ZENER Diode	1 1102	002.113.3000	DOUG Hansistor	DOGG HANGISTO
				TS02	463.223	BC548C Transistor	BC548C Transistor
RH01	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor 120R 2W 5% Metal oxide resistor	TS03	309.001.293	BC548B Transistor	BC548B Transistor
RH02	243.901	120R 2W 5% Metalloxydwiderstand	120M 2W 5% Metal Oxide resistor	TV01	309.001.293	BC548B Transistor	BC548B Transistor
RI15	309.580.967	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor	TV02	309.001.293	BC558B Transistor	BC558B Transistor
				TV03	309.001.226	BC558B Transistor	BC558B Transistor
RJ20	335.550.6100	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor	TV04	309.001.226	BC558B Transistor	BC558B Transistor
RL21	276 072	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor	TV05	309.001.292	BC558C Transistor	BC558C Transistor
RL21	276.873 249.515	33R 1W 5% Metalloxydwiderstand	33R 1W 5% Metal oxide resistor	TV06	463.223 463.223	BC548C Transistor BC548C Transistor	BC548C Transistor BC548C Transistor
RL25	256.361	27R 2W 5% Metalloxydwiderstand	27R 2W 5% Metal oxide resistor	TV09	463.330	BC558A Transistor	BC558A Transistor
RL27	243.455	1R8 0,5W 5% Sicherheitswiderstand	1R8 0,5W 5% Fusible resistor	TV12	309.001.226	BC5588 Transistor	BC558B Transistor
RL27	243.902	0R56 0,5W 5% Sicherheitswiderstand	0R56 0,5W 5% Fusible resistor			0014450 ( 01711111 )	Balan line
RL27 RL27	309.580.958 409.169	1R5 0,5W 5% Sicherheitswiderstand 1R 0,5W 5% Sicherheitswiderstand	1R5 0,5W 5% Fusible resistor 1R 0,5W 5% Fusible resistor	VC01	309.699.270	SDL145S / DL711 Verzögerungsleitung	Delay line
RL28	499.169	0R22 0,3W 5% Sicherheitswiderstand	0R22 0,3W 5% Fusible resistor	VV01	201.462.70	CD0091-2(Y DELAY LINE) LC-Filter	CD0091-2 LC Filter
RL28	490.007.8987	0R22 0,35W 5% Sicherheitswiderstand	0R22 0,35W 5% Fusible resistor	VV01	243.909	Verzögerungsleitung	Delay line
RL31	243.904	220R 2W 5% Metalloxydwiderstand	220R 2W 5% Metal oxide resistor				
RL36	309.580.952	1KR 0,5W 10% Sigherheitswiderstand	1KR 0,5W 10% Fusible resistor 0R22 0,35W 5% Fusible resistor	-	804.087.89	Halter, Scart	Scart holder
RL40 RL41	490.007.8987 243.903	0R22 0,35W 5% Sicherheitswiderstand 0R22 0,5W 5% Sicherheitswiderstand	0R22 0,35W 5% Fusible resistor				
	240,800	S. LE 3,517 575 Glorio monta wind island					
RP01	243.905	0R27 3W 5% Metallfilmwiderstand	0R27 3W 5% Metal film resistor	-			
RP01	490.008.0543	0R22 3W Metallfilmwiderstand	OR22 3W Metal film resistor				
RP04 RP04	249.515	33R 1W 5% Metalloxydwiderstand 47R 1W 5% Metalloxydwiderstand	33R 1W 5% Metal oxide resistor 47R 1W 5% Metal oxide resistor				
RP05	256.799 243.906	1KR 9W 10% Drahtwiderstand	1KR 9W 10% Wire resistor	1			
RP10	243.922	27KR 5W 5% Drahtwiderstand	27KR 5W 5% Wire resistor				
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		<u></u>				······································	

# Ersatzteilliste · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio · Lista de piezas de recambio

Wichtig:

Bei Ersatzteilbestellung bitte unbedingt die entsprechende Bestellnummer angeben!

N.B.: Important: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number! Lors d'une commande de pièces de rechange, prière d'indiquer en tout cas le numéro de la pièce!

Importante:

Ordinare sempre con il numero corrispondenti di codice!

Importante:

Pedir siemple lis recambios con el numero correspondiente de codigo!

Pos.	ArtNr Part No. No.articolo	Bezeichnung	Part
		BILDROHRPLATTE 10" / 14" / 15"	CRT BOARD 10" / 14" / 15
TT51	463.240	BF423 Transistor	BF423 Transistor
TT52	465.913	BF422 Transistor	BF422 Transistor
TT61	463,240	BF423 Transistor	BF423 Transistor
TT62	465.913	BF422 Transistor	BF422 Transistor
TT71	463.240	BF423 Transistor	BF423 Transistor
TT72	465.913	BF422 Transistor	BF422 Transistor
TT81	465.981	BC557B Transistor	BC557B Transistor
DT50	309.325.927	1N4148 Diode	1N4148 Diode
DT55	309.325.056	BA157 Diode SSW	BA157 Diode
DT60	309.325.927	1N4148 Diode	1N4148 Diode
DT65	309.325.056	BA157 Diode SSW	BA157 Diode
DT70	309.325.927	1N4148 Diode	1N4148 Diode
DT75	309.325.056	BA157 Diode SSW	BA157 Diode
DT85	266.939	ZPD15V ZENER Diode	ZPD15V ZENER Diode
DT95	273TX0443	BZX83C20 ZENER Diode	BZX83C20 ZENER Diode
CT90	309.442.978	1NF 2KV 20% Keramik-Kondensator	1NF 2KV 20% C cap
PT50	243.874 243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor
PT70	243.874	47KR 30% Trimmwiderstand	47KR 30% Trimmer resistor
RT52	243.875	10KR 2W 10% Metalloxydwiderstand	10KR 2W 10% Metal oxide resistor
RT62	239.252	10KR 3W 5% Metalloxydwiderstand	10KR 3W 5% Metal oxide resistor
RT72	239.252	10KR 3W 5% Metalloxydwiderstand	10KR 3W 5% Metal oxide resistor
	201.746.20	Bildrohrfassung, TX90 10*	Cathode ray tube socket
		BILDROHRPLATTE 16" / 20"	CRT BOARD 16" / 20"
TTEO	400 007 000	DE 400 TO ANC	Translator BE422
	490.007.8583	BF422 TRANS	Transistor, BF422
TT51	463.240	Transistor, BF423	Transistor, BF423
TT51 TT52	463.240 273.870	Transistor, BF423 Halter, Kunststoff, Transistor	Transistor, BF423 Plastic holder, Transistor
TT51 TT52 TT52	463.240 273.870 490.008.1387	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S
TT51 TT52 TT52 TT60	463.240 273.870 490.008.1387 490.007.8583	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422
TT51 TT52 TT52 TT60 TT61	463.240 273.870 490.008.1387	Transistor, BF423 Haiter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423
TT51 TT52 TT52 TT60 TT61 TT61	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor
TT51 TT52 TT52 TT60 TT61 TT62 TT62	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422 Transistor, BF423 Transistor, Transistor Transistor, BF883S
TT51 TT52 TT52 TT60 TT61 TT62 TT62 TT62	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.007.8583	Transistor, BF423 Halter, Kunststoft, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoft, Transistor TRANSISTOR BF883/S BF422 TRANS	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF8422
TT50 TT51 TT52 TT52 TT60 TT61 TT62 TT62 TT70 TT71	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422
TT51 TT52 TT62 TT60 TT61 TT61 TT62 TT62 TT70 TT71	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.007.8583 463.240 273.870	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF8422
TT51 TT52 TT52 TT60 TT61 TT62 TT62 TT70 TT71 TT72	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.007.8583 463.240	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422 Transistor, BF423 Transistor, BF83S Transistor, BF423 Plastic holder, Transistor
TT51 TT52 TT52 TT60 TT61 TT62 TT62 TT70	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422 Transistor, BF423 Transistor, BF823
TT51 TT52 TT52 TT60 TT61 TT61 TT62 TT62 TT70 TT71 TT72 TT72 TT72 TT81	463.240 273.870 490.008.1387 490.007.8563 463.240 273.870 490.008.1387 490.007.8563 463.240 273.870 490.008.1387 352.110.3000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF823 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF845B Diode, 1N4148 Diode, 1N4148
TT51 TT52 TT52 TT60 TT61 TT62 TT62 TT70 TT71 TT71 TT72 TT72	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 352.110.3000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF423 Plastic holder, Transistor Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BC557B Diode, 1N4148 Diode, 1N4148 BA157 Diode
TT51 TT52 TT52 TT60 TT61 TT61 TT62 TT70 TT71 TT72 TT72 TT72 TT81 DT50 DT51 DT55 DT60	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 352.110.3000 351.221.6000 351.221.6000 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE BA157 DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF889S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF883S Transistor, BC557B Diode, 1N4148 Diode, 1N4148 Blafs T Diode Diode, 1N4148
TT51 TT52 TT52 TT60 TT61 TT62 TT70 TT71 TT72 TT72 TT72 TT781 DT50 DT51 DT55 DT60 DT61	463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 352.110.3000 351.221.6000 490.007.8520 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF88S Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF883S Transistor, BF883S Transistor, BF883S Transistor, BF883S Transistor, BF883C T
TT51 TT52 TT52 TT60 TT61 TT62 TT70 TT71 TT72 TT72 TT72 TT81 DT50 DT51 DT55 DT60 DT61 DT65	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 352.110.3000 351.221.6000 351.221.6000 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE BA157 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF882S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF422 Plastic holder, Transistor Transistor, BF823 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF843S Diode, 1N4148 BA157 Diode Diode, 1N4148 BA157 Diode BA157 Diode
TT51 TT52 TT52 TT60 TT61 TT62 TT70 TT71 TT72 TT71 DT50 DT51 DT55 DT60 DT61 DT65 DT70	463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 352.110.3000 351.221.6000 490.007.8520 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148 DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF88S Transistor, BF82S Transistor, BF422 Transistor, BF422 Transistor, BF83S Transistor, BF83S Transistor, BF423 Plastic holder, Transistor Transistor, BF823 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BC557B Diode, 1N4148 Diode, 1N4148 Diode, 1N4148 Diode, 1N4148 Diode, 1N4148 BA157 Diode Diode BA157 Diode Diod
TT51 TT52 TT52 TT60 TT61 TT62 TT70 TT71 TT72 TT72 TT72 TT72 TT81 DT50 DT51 DT65 DT60 DT61 DT65 DT60 DT70	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 351.221.6000 351.221.6000 490.007.8520 351.221.6000 490.007.8520 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE BA157 DIODE 1N4148 DIODE BA157 DIODE IN4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF823 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF843 Transistor, BF444 Biode, 1N4148 Biode, 1N4148 Biode, 1N4148 Biode, 1N4148
TT51 TT52 TT52 TT60 TT61 TT62 TT762 TT77 TT77 TT77 TT77 TT77 TT7	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 352.110.300 351.221.6000 490.007.8520 351.221.6000 490.007.8520 351.221.6000 490.007.8520	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF82S Transistor, BF82S Transistor, BF422 Transistor, BF422 Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF83S Diode, 1N4148 BA157 Diode
TT51 TT52 TT52 TT60 TT61 TT62 TT70 TT71 TT72 TT72 TT72 TT72 TT81 DT50 DT51 DT65 DT60 DT61 DT65 DT60 DT70	463.240 273.870 490.008.1387 490.007.8583 463.240 273.870 490.008.1387 490.008.1387 490.008.1387 490.008.1387 490.008.1387 351.221.6000 351.221.6000 490.007.8520 351.221.6000 490.007.8520 351.221.6000	Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BF422 TRANS Transistor, BF423 Halter, Kunststoff, Transistor TRANSISTOR BF883/S BC557B TRANS DIODE 1N4148 DIODE 1N4148 DIODE BA157 DIODE 1N4148 DIODE BA157 DIODE IN4148	Transistor, BF423 Plastic holder, Transistor Transistor, BF883S Transistor, BF423 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF823 Plastic holder, Transistor Transistor, BF83S Transistor, BF83S Transistor, BF83S Transistor, BF843 Transistor, BF444 Biode, 1N4148 Biode, 1N4148 Biode, 1N4148 Biode, 1N4148

Pos.	ArtNr Part No. No.articolo	Bezeichnung	Part
CT90	490.008.0431	KONDENSATOR 1NF/2KV	C cap, 1nF, 2kV, 20%
0190	490.006.0431	RONDENSATOR INFIERV	C Cap, IIII , 2K4, 2076
PT50	338.701.1000	POTI 47K	Potentiometer, 47kΩ
PT70	338.701.1000	POTI 47K	Potentiometer, 47kΩ
RT51	246.869	Sicherheitswiderstand, 1kΩ, 0,3W, 10%	Fusible resistor, 1kΩ, 0,3W
RT61	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
RT71	490.007.9583	WIDERSTAND 1K/0,3W	Fusible resistor, 1kΩ, 0,3W
	353.902.1000	BILDROEHRENFASSUNG	Cathode ray tube socket
		DC-DC KONVERTER	DC-DC CONVERTER
BD712	804.085.95	Stiftgehäuse, 3polig, natur	3 pin contact housing
DD701	309.325.181	1\$1834 Diode	1S1834 Díode
DD702	309.325.181	1S1834 Diode	1S1834 Diode
DD703	309.325.112	BA158 Diode	BA158 Diode
DD704	309.325.112	BA158 Diode	BA158 Diode
DD705	309.325.112	BA158 Diode	BA158 Diode
D0706	309.325.112	BA158 Diode	BA158 Diode
DD707	309.325.183	1\$1888 Diode	1S1888 Diode
DD708	273TX0025	1N4001 Diode	1N4001 Diode
DD710	273TX0025	1N4001 Diode	1N4001 Diode
DD712	462.268	1N4006 Diode	1N4006 Diode 1N4148 Diode
DD713	309.325.927	1N4148 Diode	1N4148 Dioge
FD702	309.628.909	8A 60V Sicherung	8A 60V Fuse
LD701	490.007.8223	SPULE 170UH	Choke coil, 170µH
LD7021	490.007.8224	DC-DC-KONVERTER	TF-M DC-DC CONVERTER
LD7031	309.636.943	Relais, 12V, 22mA	Relay, 12V, 22mA
LD704	243.872	2U2H 25% Drossel	2U2H 25% Choke
RD702	309.580.983	220R 0,3W 5% Sicherheitswiderstand	220R 0,3W 5% Fusible resistor
RD707	246.045	22R 0,7W 5% Metalloxydwiderstand	22R 0,7W 5% Metal oxide resistor
RD709	243.873	0R68 0,3W 5% Sicherheitswiderstand	0R68 0,3W 5% Fusible resistor
TD701	309.003.751	416-1 Transistor	416-1 Transistor
TD701,702	149.078	Montagectip	Clip
TD702	309.003.751	416-1 Transistor	416-1 Transistor
TD703	339.556.222	BC547B Transistor	BC547B Transistor
		Weitere gerätespezifische Ersatzteile lieferbar.	Further spare parts ar available.

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#### Symptom (8)

Activating the child safety.

#### Porada

Program timer and switch off with RC.

#### Symptom (9)

Activating the hotal mode.

#### Porada

From software 08:

- 1. Switch appliance into standby.
- 2. Switch off mains.
- 3. Keep standby key on the RC pressed in.
- 4. Switch on mains.

#### Symptom (10)

How to unlock hotel mode.

#### Porada

Procedure:

- 1. Switch set off using RC.
- 2. Switch off set from mains switch at rear.
- 3. Wait for 30 seconds.
- 4. Holding down standby on RC switch set back on.5. The menu should now be shown, switch off hotel mode using volume key.
- 6. Finally press TV on handset.